

W- 1902

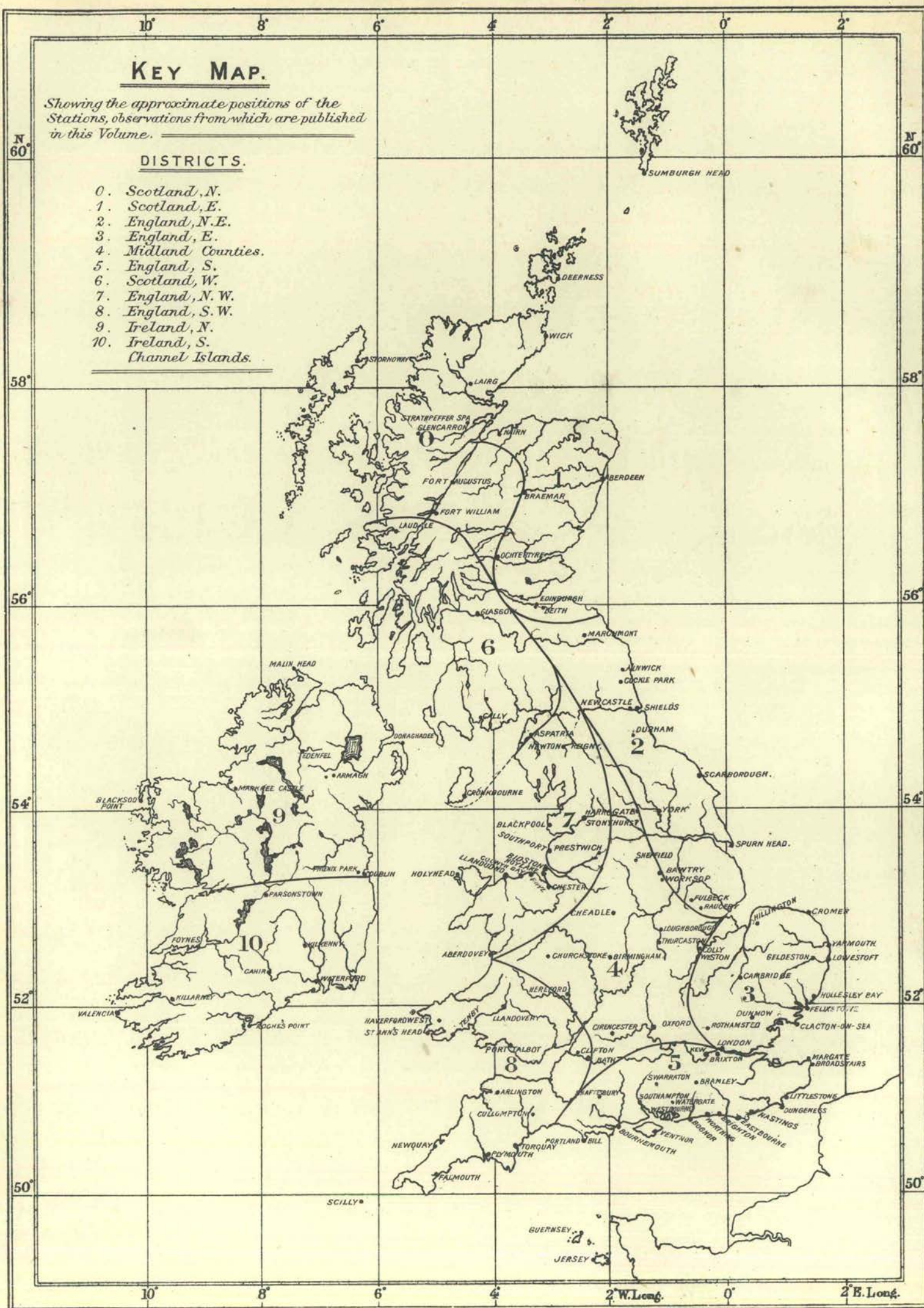
10

KEY MAP.

Showing the approximate positions of the Stations, observations from which are published in this Volume.

DISTRICTS.

0. Scotland, N.
1. Scotland, E.
2. England, N.E.
3. England, E.
4. Midland Counties.
5. England, S.
6. Scotland, W.
7. England, N.W.
8. England, S.W.
9. Ireland, N.
10. Ireland, S.
Channel Islands.



THE
WEEKLY WEATHER REPORT
OF THE
METEOROLOGICAL OFFICE
FOR THE YEAR
1902
(VOL. XIX.—THIRD SERIES)

CONTAINING
SYNOPTIC CHARTS,
AND
DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;
ALSO
TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND
BRIGHT SUNSHINE, FOR EACH WEEK,
WITH MONTHLY SUPPLEMENTS, TWO APPENDICES AND
FRONTISPIECE MAP.

Published by the Authority of the Meteorological Council.



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1903.

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II.—Weekly and Progressive Values for each <i>District</i> for 1902 of the different elements, namely :—	
Rainfall, Rain-Days, Accumulated Temperature above 42° F., Accumulated Temperature below 42° F., Bright Sunshine—Duration, Bright Sunshine—Percentage - - - - -	[11]

ERRATA IN THE MONTHLY SUMMARIES.

The following values should be substituted for those appearing in the Summaries as printed :—

January, p. vi. ...	... Glencarron.—Rainfall—Total fall, 12·42 ins.; difference from average, + 2·48 ins. Shaftesbury.—Temperature—Extreme maximum, 51° on 3rd and 4th.
p. vii....	... Killarney.—Rainfall—12 days; total fall, 3·27 ins.; difference from average, —3·02 ins.; date of maximum fall, 23rd.
February, p. xiv.	... Churchstoke.—Rainfall—12 days; total fall, 0·71 in.; difference from average, —1·71 ins. Sunshine—77·2 hrs.; difference from average, + 7·4 hrs.; percentage of possible duration, 29; and difference, + 3. Shaftesbury.—Temperature—Extreme maximum, 51° on 28th. Rainfall—Total fall, 1·83 ins.; difference from average, — 0·79 in.
p. xv.	... Prestwich.—Rainfall—10 days; total fall, 1·60 ins.; difference from average, — 0·70 in. Killarney.—Rainfall—Total fall, 4·08 ins.; difference from average, —1·22 ins.; date of maximum fall, 17th.
March, p. xxii. ...	... Churchstoke.—Temperature—Mean of minimum, 37°·1; mean of maximum, 51°·9; mean of minimum and maximum combined, 44°·5; difference from average, + 4°·0. Sunshine—Total amount, 105·1 hrs.; difference from mean, 12·5 hrs.
p. xxiii....	... Killarney.—Rainfall—Total fall, 4·72 ins.; difference from average, + 0·61 in.; date of maximum fall, 27th.
April, p. xxx. ...	... Hillington.—Temperature—Extreme minimum, 26° on 9th. Lowestoft.—Sunshine—Total amount, 180·1 hrs.; percentage of possible duration, 44. Cheadle.—Temperature—Extreme maximum temperature, 63° on 25th. Churchstoke.—Sunshine—total amount, 188·0 hrs.; difference from average, + 40·1 hrs.
p. xxxi. ...	... Killarney.—Rainfall—Total amount, 2·19 ins.; difference from average, —1·18 ins.; date of maximum fall, 21st.
May, p. xxxviii.	... Scarborough.—Temperature—Extreme minimum, 33° on 2nd and 5th. Churchstoke.—Sunshine—Total amount, 208·1 hrs.; difference from average, + 13·6 hrs.
June, p. xlv. ...	... London.—Weather—Number of days of thunderstorm, 6.
p. xlv. ...	... Scarborough.—Sunshine—Total amount, 134·0 hrs.; percentage of possible duration, 27. Hillington.—Rainfall—19 days; total fall, 3·52 ins.; difference from average, + 1·38 ins. Churchstoke.—Rainfall—Total fall, 2·23 ins.; difference from average, + 0·07 in.
p. xlvii. ...	... Guernsey.—Sunshine—Total amount, 192·9 hrs.; difference from average, — 60·7 hrs.; percentage of possible duration, 40; difference from average, — 13.
August, p. lx. ...	... London.—Sunshine—Total amount, 105·2 hrs.; difference from average, — 67·4 hrs.
p. lxii. ...	... Cheadle.—Rainfall—21 days; total fall, 3·29 ins.; difference from average, — 0·20 in.
September, p. lxxviii.	... London.—Sunshine, 132·7 hrs.; difference from average, + 6·5 hrs.; percentage of possible duration, 35; difference from average, + 1.
p. lxxi. ...	... Blackpool.—Sunshine, 147·2 hrs.; difference from average, + 25·4 hrs.; percentage of possible duration, 29; difference from average, + 6.
November, lxxxvi.	... Cheadle.—Rainfall—Total fall, 2·39 ins.; difference from average, — 0·58 in.; maximum fall 0·40 in. on 24th.

Appendix II., p. [15]. District 3, last line—the aggregate number of hours for the whole year should be 1,573, not 1,593 as printed.

PREFACE.

IN the Weekly Weather Report for 1902 the general arrangement of the weekly Remarks and Tabular matter is unaltered. These will be found on the first, second, and sixth pages of each Report. The Daily Charts cover the same area as those for last year, viz.: nearly the whole of Europe and the greater part of the Mediterranean.

The *Monthly Summaries* contain results of the observations made at 114 to 117 stations in the British Islands.

Appendices I. and II. are published, as hitherto—the former with some slight modification since 1891.

DISTRICTS AND STATIONS.

For the purposes of this Report the United Kingdom is divided into eleven Districts, which are shown on the frontispiece map, distinguished by the numbers 0 to 10. There are in addition three stations in the Channel Islands, viz., Scilly (St. Mary's), Jersey (St. Aubin's), and Guernsey (St. Peter Port), which cannot be conveniently placed in any of the Districts. The positions of the stations supplying information are marked on the map by black dots, and their names are given in the following list, arranged under the districts to which they belong:—

District.	County.	Station.	District.	County.	Station.
0. SCOTLAND, N. -	Caithness - -	Wick.	6. SCOTLAND, W. -	Argyll - - -	Laudale.
	Cromarty - -	Strathpeffer Spa.		Cumberland - -	Aspatria.
	Inverness - -	Fort Augustus.		Isle of Man - -	Cronkbourne.
	Orkney - - -	Fort William.		Kirkcudbright - -	Cally.
	Ross - - -	Deerness.		Lanark - - -	Glasgow.
1. SCOTLAND, E. -	Shetlands - -	Glencarron.	7. ENGLAND, N.W. -	Anglesey - - -	Holyhead.
	Sutherland - -	Stornoway.		Carnarvon - - -	Llandudno.
		Sumburgh Head.		Cheshire - - -	Chester (Hawarden Bridge).
		Lairg.			Hoylelake.
					Liverpool (Bidston)
2. ENGLAND, N.E. -	Aberdeen - -	Aberdeen.	Cumberland - -	Newton Reigny.	
	Braemar - - -	Marchmont.	Denbigh - - -	Colwyn Bay.	
	Berwick - - -	Edinburgh.	Flint - - -	Rhyl.	
	Edinburgh - -	Leith.	Lancashire - -	Blackpool.	
	Nairn - - -	Nairn.	Merioneth - -	Manchester (Prestwich).	
3. ENGLAND, E. -	Perth - - -	Ochtertyre.		Southport.	
				Stonyhurst.	
				Aberdovey.	
4. MIDLAND COUNTIES.	Durham - - -	Durham.	8. ENGLAND, S.W. -	Carmarthen - -	Llandovery.
	Lincoln - - -	Fulbeck.	Cornwall - - -	Cornwall - - -	Falmouth.
		Rauceby.	Devon - - -	Devon - - -	Newquay.
	Northumberland -	Alnwick Castle.	Glamorgan - -	Arlington.	
		Cockle Park.	Gloucester - -	Cullompton.	
5. ENGLAND, S. -	Shields.		Pembroke - - -	Plymouth.	
	York - - -	Newcastle-on-Tyne.	Somerset - - -	Torquay.	
		Scarborough.		Port Talbot.	
		Spurn Head.		Clifton.	
		York.		Haverfordwest.	
6. ENGLAND, S.W. -	Cambridge - -	Cambridge.	9. IRELAND, N. -	Pembroke.	
	Essex - - -	Clacton-on-Sea.	Armagh - - -	Tenby.	
	Hertford - - -	Dunmow.	Donegal - - -	Bath.	
	Norfolk - - -	Rothamsted.	Down - - -		
		Cromer.	Mayo - - -		
7. ENGLAND, N.W. -	Suffolk - - -	Geldeston.	Sligo - - -		
		Hillington.	Tyrone - - -		
		Yarmouth.			
		Felixtowe.			
		Hollesley Bay.			
8. ENGLAND, S.W. -	Lowestoft.		10. IRELAND, S. -		
			Cork - - -		
			Dublin - - -		
			Kerry - - -		
			Kilkenny - - -		
9. IRELAND, N. -	Gloucester - -	Cirencester.	Kings County -		
	Hereford - - -	Hereford.	Limerick - - -		
	Leicester - - -	Loughborough.	Tipperary - -		
		Thurcaston.	Waterford - -		
	Montgomery - -	Churchstoke.			
10. IRELAND, S. -	Northampton -	Colly Weston.	CHANNEL ISLANDS	Channel Islands -	Guernsey.
	Nottingham - -	Bawtry.		Jersey.	
		Worksop.		Scilly Islands -	Scilly (St. Mary's).
	Oxford - - -	Oxford.			
	Stafford - - -	Cheadle.			
1. SCOTLAND, E. -	Warwick - - -	Birmingham.			
	York - - -	Sheffield.			
		Harrogate.			
2. ENGLAND, N.E. -	Dorset - - -	Portland Bill.			
	Hampshire - -	Shaftesbury.			
		Bournemouth.			
		Southampton.			
		Swarraton.			
3. ENGLAND, E. -	Kent - - -	Ventnor Hospital.			
		Broadstairs.			
		Dungeness.			
		Littlestone-on-Sea.			
		Margate.			
4. MIDLAND COUNTIES.	Middlesex - -	London (City).			
		" (Westminster).			
	Surrey - - -	Bramley.			
		London (Brixton).			
	Sussex - - -	Kew.			
5. ENGLAND, S. -		Bognor.			
		Brighton.			
		Eastbourne.			
		St. Leonards.			
		Watergate.			
6. SCOTLAND, N. -		Westbourne.			
		Worthing.			

WEEKLY REPORT.

The general arrangement of the weekly issues of the Report is as follows :—

- I. Weekly Summary, arranged under *Districts*.
- II. Weekly Summary arranged under *Stations*.
- III. Daily Charts.
- IV. General Notes, &c.

The information given under each of these heads may be summarised as follows :—

I. *Weekly Summary*.—The Tabular Summary on the first page of each Report gives for each week and for each *District* :—

Temperature.—The absolute highest and lowest observed, the weekly averages of both the daily extremes, the daily average and its difference from the mean for the corresponding period as derived from observations extending over the 30 years 1871–1900, together with the values for “accumulated” temperature above and below 42° F., and the differences from the mean values for the 20 years 1881–1900.

Rainfall.—The total fall and the number of rain-days for the week, and for the part of the year to date, together with the differences from average for the corresponding periods based on observations from 1866–1900.

Bright Sunshine.—The number of hours of sunshine recorded, and the percentage ratio of that time to the whole time during which the sun is above the horizon : also the progressive values reckoned from the commencement of the year, together with the differences between these values and the means for the corresponding period in the 20 years 1881 to 1900.

General Remarks on the weather for the week.

II. *Weekly Summary*.—This appears on the second page in each weekly issue and contains the data used in the preparation of the Summaries on the first page, the values being set out for each *Station*. The information given for each station is in nearly the same form as that presented for each *District* in I.

III. *Daily Charts*.—These are three in number for each day, and they show the distribution of pressure and wind over the whole of Europe at 8 a.m. and 6 p.m., and the temperature, weather, and sea disturbance at 8 a.m. each day. The maps are accompanied by a brief account of the weather conditions for the day, and the changes that had taken place since the previous day.

IV. *General Notes, &c.*—The General Notes give a brief but comprehensive account of the weather changes over Europe for the period under review. Under this heading also are printed the results, as far as regards Bright Sunshine, from a number of additional stations.

The following Rules are observed in compiling the Tables and preparing the Daily Charts :—

(1.) DAILY MEAN TEMPERATURE.

The daily Mean Temperature shown in the Tables in the *Weekly Reports* is calculated from the mean between the daily maxima and minima, due regard being had for the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and at the self-registering Observatories of the Meteorological Council.

The approximate Mean Daily Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima :—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example :

The mean maximum temperature for a week in December being - - - 48·1

The mean minimum - - - - - 39·3

The difference is - - - - - 8·8

This difference 8·8 × 520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43·9, the required mean daily temperature of the week.

(2.) ACCUMULATED TEMPERATURE.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show for each week, and for the whole period from the commencement of the year, the weekly and progressive values, respectively, of the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. The base adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in “Day-degrees,”—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature of the day gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing, for a WEEKLY PERIOD, from the observed MAXIMA and MINIMA, the ACCUMULATED TEMPERATURE above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.
2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply:—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is above 42° F. or equal to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is below 42° F., but the mean for the day is above 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0.4.
If the mean for the day is below 42° F., but the maximum is above 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the co-efficient 0.4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is below 42° F. or equal to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in cases 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0.4; for 52° F., 0.33; for 62° F., 0.25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

(3.) DAILY CHARTS.

In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\longrightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\dashrightarrow$ = a fresh to strong breeze; $\longrightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, Holland, and Spain; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands, Belgium, and Spain; 4 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

MONTHLY SUMMARY.

The Monthly Summaries for 1902 have been considerably enlarged, and they now comprise results from 117 stations in the British Islands.

Of the additional stations included for the first time some rank as Normal Climatological Stations, and give full returns of pressure, temperature, humidity, cloud, rainfall, wind, and weather. Others are Climatological, and yield information as to temperature, rainfall, and in some cases sunshine, while others supply only the sunshine record.

The Summary for January, 1902, contained results for 114 stations, whilst that for December comprised returns from 117 stations.

Each Monthly Summary includes:—

1. A Plate containing 4 charts, showing—
 - (1.) The Monthly Barometric pressure and Winds.
 - (2.) The Movements of Depressions.
 - (3.) The Distribution of Mean Temperature, and
 - (4.) The Monthly Rainfall.
2. Remarks on the Weather over the British Islands.
3. Table of results for the month from 46 stations giving full returns.
4. Table of results for the month, as far as available, of the observations of Temperature, Rainfall, and Sunshine, at the remainder of the stations (71 in number in December).

APPENDICES.

Appendix I.—This contains for each of the eleven *Districts* and for the Channel Islands :—

1. Summaries for each Quarter and for the Year, of the Temperature and Rainfall records, with similar information for the past years of the period of 37 years, 1866–1902.
2. Tables giving for 1902, for periods of 4 weeks and 5 weeks, the progressive numbers of—
Rain-Days.
Rainfall.
Accumulated Temperature (*i.e.*, Day Degrees above and below 42° F.).
Bright Sunshine, Duration, and
Bright Sunshine, Percentage
in continuation of the values given in Appendix I. for 1901.

Appendix II.—This contains for each of the eleven *Districts* and for the Channel Islands :—

Tables giving for 1902 the *weekly* and progressive values of—

- Rain-Days.
Rainfall.
Accumulated Temperature (*i.e.*, Day Degrees above and below 42° F.).
Bright Sunshine, Duration, and
Bright Sunshine, Percentage
in continuation of the values given in Appendix II. for 1901.

NOTE :—The numbers for the Percentages of Possible Duration of Bright Sunshine given in Appendix I. will be found to differ slightly, in some cases, from those for corresponding dates in Appendix II.

It has been found possible in computing the numbers given in Appendix I. to group the data for stations included in the several districts upon a method which probably gives a more accurate representation of the condition of the district than that which—in accordance with the practice since 1886—has been followed in computing the numbers appearing in the weekly issues, and reproduced in Appendix II.

Tables showing for each degree of Latitude from 49° N. to 58° N., and for each Weekly and Four-Weekly or Five-Weekly period, the total numbers of hours during which the Sun is above the Horizon, together with their Reciprocals, are given in the Preface to The Weekly Weather Report for 1884, while similar information for the Calendar Months is given in the Preface to The Monthly Weather Report for 1884.

THE following is a LIST of the OBSERVERS to whom the Council are indebted for observations contributed to the WEEKLY WEATHER REPORT and published either in the Weekly Issues or in the Monthly Summaries during 1902, together with the NAMES and ALTITUDES of their STATIONS :—

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.
*Aberdovey - -	Feet. ?	John Edwards.	Harrogate - -	Feet. 476	G. Paul, for the Corporation.
Alnwick Castle -	210	Robert Kyle, for the Duke of Northumber- land, K.G.	Hastings (St. Leonards). -	178	H. Colborne, M.R.C.S., for the Corporation.
Arlington (N. Devon)	613	Lady Chichester.	*Haverfordwest -	—	J. W. Phillips.
Armagh - - -	196	J. L. E. Dreyer, Ph.D., and Staff of Observatory.	Hereford (Belmont). -	291	Rev. T. B. Harrington.
Aspatia - - -	250	J. Smith Hill, B.Sc.	Hillington - -	88	Rev. H. E. B. Ffolkes, M.A., F. R. Met. Soc.
Bawtry (Hesley Hall). - - -	65	B. I. Whitaker, J.P., F. R. Met. Soc.	Hollesley Bay -	38	Prof. C. G. Freer Thonger, F.C.S.
Bath - - -	66	W. H. Symons, M.D., for the Corporation.	*Hoylelake - - -	?	L. G. Dashper, for Town Council.
Birmingham (Edg- baston). - -	534	Alfred Cresswell, for the Midland Institute.	Kilkenny Castle -	212	H. Carlton, for the Marquis of Ormonde, K.P.
Blackpool - -	62	F. J. H. Coutts, M.D., for the Corporation.	Killarney - -	174	E. W. Griffin, M.D.
Bognor - - -	14	H. C. L. Morris, M.D., for the Corporation.	Lairg - - -	335	Rev. D. Macrae and Rev. J. R. Maclean.
*Bournemouth -	?	C. Dales, for the Corporation.	Laudale - - -	14	A. Fletcher, for T. H. G. Newton, M.A., F. R. Met. Soc.
Braemar - - -	1,111	J. Aitken, J.P.	Littlestone-on-Sea -	?	H. T. Tubbs.
Bramley (Surrey) -	148	J. Bartlett, M.A.	Llandovery - -	217	The late J. Watkins, F. R. Met. Soc.
*Brighton - - -	65	A. Newsholme, M.D., for the Corporation.	Llandudno - -	72	W. Little, for Town Council.
*Broadstairs - -	?	W. H. White, for the District Council.	*London (Bunhill Row). -	?	Messrs. De la Rue.
*Cahir - - -	188	R. W. Smith, Junr.	*London (Westmin- ster). -	?	H. A. Reatchlous, M.A.
Cally - - -	46	W. Thomson, for H. G. Murray Stewart.	*Lowestoft - -	84	C. W. Edwards, for the Corporation.
Cambridge - -	83	Miss A. Walker, for Sir Robert Ball, F.R.S.	*Manchester (Old- ham Rd.). -	190	J. Niven, M.A., M.B., for the Corporation.
Cheadle - - -	646	J. C. Philips.	Marchmont - -	498	J. A. Wood, for Sir H. P. Campbell, Bt.
Chester (Hawarden Bridge). -	?	F. B. Summers.	*Margate - - -	83	J. Stokes, J.P., F. R. Met. Soc.
Churchstoke -	538	P. Wright, F.C.S., F. R. Met. Soc.	Markree Castle -	122	F. W. Henkel, B.A., F.R.A.S., and J. R. Armstrong, for the trustees of the late Col. Cooper, F.R.A.S.
Cirencester - -	446	Prof. G. T. Locke, M.A., for the R. A. College.	Newcastle-on-Tyne	152	N. H. Martin, F.C.S.
Clacton-on-Sea -	—	A. W. Shadick, for the Town Council.	*Newquay - - -	250?	A. Hardwick, M.D., for Town Council
Clifton - - -	230	D. Rintoul, M.A.	Newton Reigny -	579	T. G. Benn.
Cockle Park, near Morpeth. -	324	J. H. J. Farquhar, for County Council.	Ochertyre - -	329	G. Croucher, for Sir P. K. Murray, Bt.
Colly Weston - -	280	Miss Amy Tasker.	Oxford - - -	202	A. A. Rambaut, M.A., F.R.S.
*Colwyn Bay - -	?	R. E. Lord, M.D., B.Sc.	Plymouth - - -	116	H. Victor Prigg, A.M.I.C.E.
Cromer - - -	196	W. H. Archer.	*Port Talbot - -	—	R. Milner, for Miss Talbot.
Cronkbourne, Douglas. -	137	A. W. Moore, M.A., J.P.	Prestwich - - -	320	T. R. H. Clunn, M.D., F. R. Met. Soc.
Cullompton - -	202	T. Turner, J.P., F. R. Met. Soc.	*Rauceby Hall -	125	J. Hope, for General Sir M. Willson, K.C.B.
Deerness - - -	160	M. Spence.	Rothamsted - -	368	The Lawes Agricultural Trust.
Douglas, Isle of Man	137	A. W. Moore, M.A., J.P.	*Rhyi - - -	?	A. A. Goodall, for District Council.
Dublin (City) - -	47	Sir John W. Moore, M.D., F. R. Met. Soc.	Scarborough - -	62	W. W. Larkin, for the Corporation.
„ (Phoenix Park)	155	Lt.-Col. Haynes, R.E. and Lt.-Col. Sim, R.E.	Shaftesbury - -	722	Miss L. H. Harris.
Dunnow - - -	297	E. E. Hennesey, B.A., B.Sc., and Thomas Hacking.	Sheffield - - -	429	E. Howarth, F.R.A.S.
Durham - - -	336	Prof. R. A. Sampson, M.A.	Southampton -	78	A. Vaughan, R.E., for the Ordnance Survey.
Eastbourne - -	39	R. Sheward, F. R. Met. Soc., for the Corpora- tion.	Southport - - -	21	J. Baxendell, F. R. Met. Soc.
Edenfel (Omagh) -	300	Col. Buchanan, C.B., F. R. Met. Soc.	Stonyhurst - -	375	Staff of Observatory.
*Edinburgh - -	253	Regius Keeper, Botanic Gardens.	Strathpeffer Spa -	253	J. Tregelles Fox, M.D., and Dr. R. Fortescue Fox.
Felixstowe - -	76	Rev. J. G. Munday, M.A.	Swarraton - - -	310	Rev. W. L. W. Eyre, M.A., F. R. Met. Soc.
Fort Augustus -	68	Rev. C. von Dieckhoff.	*Tenby - - -	79	R. J. Truscott, for the Corporation.
Foynes - - -	108	W. H. Ward, for Lord Monteagle, K.P.	*Thurcaston - -	253	Rev. T. A. Preston, M.A., F. R. Met. Soc.
Fulbeck - - -	185	Rev. Vere F. Willson, M.A.	*Torquay - - -	286	F. March, for the Corporation.
Geldeston - - -	37	E. T. Dowson, F. R. Met. Soc.	Ventnor Hospital	80	C. Lewis, M.B., and Miss M. Gibson.
Glasgow - - -	180	Staff of Observatory.	Waterford - - -	100	J. N. White.
Glencarron - -	489	D. D. Munro, for Lord Maclaren.	*Watergate - -	236	W. M. Christy.
*Guernsey - - -	180	F. E. Carey, M.D., F. R. Met. Soc.	*Westbourne - -	30	Rev. L. B. Birkett, M.A.
Guernsey - - -	295	A. Collenette, F. R. Met. Soc.	*Workshop - - -	56	H. Mellish, J.P., F. R. Met. Soc.
			*Worthing - - -	38	C. Kelly, M.D., for the Corporation.
			York - - -	56	H. M. Platnauer, B.Sc.
			*York - - -	56	H. Richardson, M.A.

Stations marked “*” report through the Royal Meteorological Society; those marked “s” through the Scottish Meteorological Society.

NOTE.—The heights given are, as far as possible, those of the ground on which the rain-gauge stands. In some cases the Sunshine Recorders are placed at a considerable elevation above this.

* Where a station is prefixed by a star it indicates that the information received is for Sunshine only.

1903.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 1.
Fourth Series.

WEEK ENDING SATURDAY, JANUARY 4TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 2.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	53	29	45.3	36.5	41.1	3 above	Day-deg. 9	Day-deg. + 2	Day-deg. 23	Day-deg. -10	Day-deg. 9	Day-deg. + 2	Day-deg. 23	Day-deg. - 10
	1. SCOTLAND, EAST .	55	26	45.2	34.7	40.2	3 above	9	+ 1	30	-10	9	+ 1	30	- 10
	2. ENGLAND, N.E. .	56	28	48.7	38.4	43.8	6 above	28	+19	10	-24	28	+ 19	10	- 24
	3. ENGLAND, EAST .	60	36	51.6	40.7	46.4	9 above	36	+27	4	-34	36	+ 27	4	- 34
	4. MIDLAND COUNTIES	57	34	50.8	40.5	45.8	8 above	33	+22	4	-35	33	+ 22	4	- 35
	5. ENGLAND, SOUTH .	56	31	51.3	43.7	47.7	8 above	40	+26	0	-29	40	+ 26	0	- 29
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	54	34	48.1	40.5	44.4	5 above	23	+11	4	-22	23	+ 11	4	- 22
	7. ENGLAND, N.W. .	56	34	49.3	41.5	45.6	6 above	27	+15	1	-26	27	+ 15	1	- 26
	8. ENGLAND, S.W. .	58	27	52.3	44.7	48.4	8 above	45	+27	0	-20	45	+ 27	0	- 20
	9. IRELAND, NORTH .	53	31	48.7	40.6	44.9	5 above	26	+12	4	-20	26	+ 12	4	- 20
	10. IRELAND, SOUTH .	56	29	51.4	41.9	46.8	5 above	34	+12	0	-19	34	+ 12	0	- 19
	—CHANNEL ISLANDS.	55	44	53.2	48.0	50.8	6 above	62	+34	0	- 7	62	+ 34	0	- 7

DISTRICTS. (See p. 2.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	7	21	8 more	7	+ 2	2.1	+ 0.3	3	- 2	8	- 3	3	- 2	8	- 3
	1. SCOTLAND, EAST .	6	10	3 more	6	+ 2	1.0	+ 0.3	8	0	17	0	3	0	17	0
	2. ENGLAND, N.E. .	5	7	2 more	5	+ 1	0.7	+ 0.2	12	+ 6	23	+12	12	+ 6	23	+12
	3. ENGLAND, EAST .	5	6	2 more	5	+ 1	0.6	+ 0.2	14	+ 3	28	+ 4	14	+ 3	28	+ 4
	4. MIDLAND COUNTIES	6	12	6 more	6	+ 2	1.2	+ 0.6	8	- 1	15	- 1	8	- 1	15	- 1
	5. ENGLAND, SOUTH .	6	10	4 more	6	+ 2	1.0	+ 0.4	7	- 4	12	- 8	7	- 4	12	- 8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	7	21	8 more	7	+ 2	2.1	+ 0.3	5	- 3	10	- 5	5	- 3	10	- 5
	7. ENGLAND, N.W. .	6	12	4 more	6	+ 2	1.2	+ 0.4	5	- 3	10	- 5	5	- 3	10	- 5
	8. ENGLAND, S.W. .	7	16	6 more	7	+ 3	1.6	+ 0.6	6	- 7	10	-12	6	- 7	10	-12
	9. IRELAND, NORTH .	7	11	3 more	7	+ 2	1.1	+ 0.3	5	- 4	9	- 9	5	- 4	9	- 9
	10. IRELAND, SOUTH .	6	11	0 (average)	6	+ 1	1.1	0.0	7	- 5	14	- 8	7	- 5	14	- 8
	— CHANNEL ISLANDS.	7	10	2 more	7	+ 2	1.0	+ 0.2	4	- 9	7	-15	4	- 9	7	-15

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was very mild, with much cloud and almost daily falls of rain in all parts of the Kingdom.

Temperature was above the mean; the excess ranged from 3° in Scotland N. and E. to 5° in Scotland W. and over Ireland, while over the greater part of England it amounted to the unusually high figure of 8° or 9°. The highest of the maxima were recorded on rather irregular dates, and varied from 60° in England E. (at Yarmouth on December 31st) and from between 58° and 56° in several other districts to 53° in Scotland N. and Ireland N. The lowest of the minima, which occurred, as a rule, at the commencement of the week, ranged from 26° in Scotland E. and 27° in England S.W. to 36° in England E. and to 44° in the Channel Islands. The minima recorded during the greater part of the week were between 40° and 50° at all our more southern and western stations.

Rainfall was more than the mean in all districts except in Ireland S., the excess being greatest in Scotland N. and W., the Midland Counties, and England S.W.

Bright Sunshine was very deficient over the Kingdom as a whole, but exceeded the normal in England E. and N.E. The percentage of the possible duration ranged from 28 and 23 in those districts to 10 in the west of Great Britain, 9 in Ireland N., 8 in Scotland N. and 7 in the Channel Islands.

Barometer and Wind.—The distribution of pressure over our Islands during this week has been very simple and of a south-westerly type. A series of large and deep cyclonic systems moved north-eastward or eastward over the north-western and northern parts of the Kingdom, while their secondaries passed in similar directions further to the southward. Strong winds with occasional gales from between S.W. and W. consequently prevailed very generally, and were accompanied by very high temperature and frequent rain.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	46	35	44.4	37.9	41.3	+ 2.2	7	17	7	1.08	+ 0.13	*	*	*	*
	Stornoway	53	30	47.1	34.4	41.0	+ 2.2	14	32	6	1.50	+ 0.32	5.6	- 0.6	12	- 1
	Wick	47	34	45.3	35.6	40.6	+ 2.9	9	26	7	0.71	+ 0.08	*	*	*	*
	Laing	50	29	42.4	33.2	38.0	+ 3.3	1	32	7	1.33	+ 0.46	*	*	*	*
	Glencarron	51	34	45.8	37.9	42.0	+ 5.2	11	11	7	2.96	+ 0.69	*	*	*	*
	Fort Augustus	50	33	45.1	36.3	40.9	+ 2.7	9	24	7	2.45	+ 1.30	0.7	- 2.1	1	- 5
1. SCOTLAND, E.	Fort William	50	37	47.1	40.0	43.7	+ 4.8	20	6	7	4.70	+ 2.52	0.2	- 3.8	0	- 8
	Nairn	52	28	44.7	33.4	39.3	+ 1.7	8	34	7	0.69	+ 0.21	*	*	*	*
	Aberdeen	50	30	45.6	34.1	40.1	+ 2.6	10	32	6	0.90	- 0.03	13.3	+ 3.1	28	+ 7
	Braemar	46	31	41.4	34.4	38.0	+ 3.6	0	23	3	1.06	+ 0.35	*	*	*	*
	Ochertyre-	50	32	45.4	35.0	40.4	+ 3.7	10	28	6	2.21	+ 1.16	*	*	*	*
	Leith	55	33	48.6	38.0	43.5	+ 4.6	27	11	6	0.75	+ 0.32	*	*	*	*
2. ENGLAND, N.E.	Marchmont	51	26	45.4	33.3	39.6	+ 3.4	10	35	5	0.68	+ 0.02	5.3	- 3.0	11	- 6
	Alwark Castle	52	28	47.4	38.0	42.9	+ 5.1	23	11	4	0.72	+ 0.13	*	*	*	*
	Durham	56	35	49.2	39.0	44.3	+ 7.4	29	8	3	0.31	- 0.21	13.6	+ 3.6	27	+ 8
	Shields	53	32	48.9	38.6	44.0	+ 5.4	28	10	5	0.55	+ 0.11	*	*	*	*
	Scarborough	51	33	48.9	37.4	43.4	+ 5.0	29	13	6	0.76	+ 0.22	7.2	—	14	—
	Spurn Head	51	34	47.3	37.7	42.7	+ 4.1	23	12	6	0.72	+ 0.33	*	*	*	*
3. ENGLAND, E.	Fullbeck (Lincolnshire)	54	32	50.6	39.7	45.4	+ 8.6	33	6	6	1.18	+ 0.76	*	*	*	*
	Hillington	53	37	50.5	40.8	45.8	+ 9.0	32	3	6	1.02	+ 0.51	12.2	+ 2.4	23	+ 5
	Yarmouth	60	36	51.1	39.7	45.6	+ 8.0	35	6	5	0.51	+ 0.01	*	*	*	*
	Geldeston	55	39	52.3	42.1	47.4	+ 9.4	38	0	6	0.59	+ 0.16	13.4	+ 1.9	25	+ 4
	Cambridge	58	37	53.7	41.0	47.6	+ 10.1	43	3	4	0.39	+ 0.02	13.0	+ 2.8	24	+ 6
	Felixstowe	51	39	49.9	40.8	45.5	+ 7.3	30	3	4	0.48	—	18.3†	—†	34†	—†
4. MIDLAND COUNTIES	Rothamsted	55	36	52.0	39.9	46.2	+ 8.7	33	6	5	0.74	+ 0.19	11.6	+ 1.6	21	+ 3
	Bawtry (Hesley Hall)	53	34	49.3	37.7	43.7	+ 6.2	30	12	5	0.82	+ 0.38	*	*	*	*
	Loughborough	54	36	50.7	40.7	45.9	+ 8.2	33	4	6	1.47	+ 0.97	*	*	*	*
	Colly Weston (Stamford)	55	34	51.3	39.9	45.8	+ 8.2	35	6	6	0.98	—	*	*	*	*
	Cheadle	51	35	48.5	39.2	44.0	+ 7.2	26	8	7	1.56	+ 0.89	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	54	33	49.7	40.4	45.2	+ 7.0	29	4	5	1.47	+ 0.99	3.8	—	7	—
5. ENGLAND, S.	Churchstoke	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Hereford	57	37	52.7	43.0	48.0	+ 9.5	42	0	4	1.20	+ 0.63	*	- 3.7	12	- 6
	Cirencester	53	36	51.0	40.1	45.8	+ 8.3	35	5	6	1.02	+ 0.38	6.5	+ 0.3	19	+ 1
	Oxford	56	37	52.9	42.9	48.1	+ 9.5	43	0	5	0.69	+ 0.23	10.3	0.8†	8†	1†
	London	56	39	52.9	42.1	47.7	+ 8.7	40	0	5	0.84	+ 0.38	4.5†	*	*	*
	Swarraton (Alresford)	53	38	51.5	42.6	47.2	+ 9.4	36	0	5	1.24	+ 0.54	*	—	14	—
6. SCOTLAND, W.	Dungeness	52	41	50.9	43.3	47.3	+ 7.4	37	0	6	0.61	+ 0.15	7.6	- 7.4	11	+ 13
	Hastings (St. Leonards)	51	40	50.2	43.9	47.2	+ 7.3	36	0	6	0.94	+ 0.31	6.0	- 7.9	6	- 14
	Southampton	55	41	52.6	44.6	48.8	+ 8.9	48	0	6	1.42	+ 0.72	3.5	*	*	*
	Portland Bill	53	45	50.9	44.7	49.4	+ 7.8	52	0	6	1.01	—	*	*	*	*
	Shaftesbury	51	31	50.1	41.6	46.0	+ 9.0	30	1	5	1.04	+ 0.34	*	*	*	*
	Laudale (Loch Sunart)	54	37	48.2	39.1	43.8	+ 3.7	25	8	7	3.32	+ 1.30	*	- 4.2	1	- 8
7. ENGLAND, N.W.	Glasgow	51	34	47.2	40.0	43.7	+ 5.2	20	6	7	1.57	+ 0.64	0.4	—	—	—
	Glenlee	—	—	—	—	—	—	—	—	—	—	—	—	- 0.7	19	- 1
	Douglas (Isle of Man)	51	39	49.0	42.3	45.8	+ 4.9	27	0	6	1.53	+ 0.50	9.6	—	4	—
	Newton Reigny	52	34	46.9	38.0	42.6	+ 5.8	21	11	7	1.30	—	2.2	- 5.4	3	- 10
	Stonyhurst	50	37	47.3	41.0	44.3	+ 6.5	20	3	6	2.17	+ 1.14	1.5	+ 1.4	17	+ 4
	Blackpool	51	35	49.0	41.1	45.2	+ 6.5	26	3	6	1.35	+ 0.67	8.3	—	8	—
8. ENGLAND, S.W.	Manchester (Prestwich)	53	36	49.7	41.1	45.6	+ 7.6	29	3	6	1.70	+ 0.93	4.0	—	16	—
	Liverpool Obsy. (Bidston)	53	35	49.7	41.3	45.7	+ 6.3	29	2	6	0.71	+ 0.16	8.5	*	*	*
	Chester	56	37	51.0	42.1	46.7	+ 6.3	33	0	5	0.90	—	*	- 4.1	10	- 8
	Llandudno	54	39	51.8	43.2	47.7	+ 6.1	40	0	7	0.93	+ 0.26	5.2	*	*	*
	Holyhead	51	41	49.1	44.1	46.7	+ 6.2	33	0	4	0.58	+ 0.22	*	*	*	*
	Llandover	52	36	50.6	43.0	47.0	+ 9.0	35	0	7	3.03	+ 1.80	*	- 9.1	4	- 16
9. IRELAND, N.	Pembroke	53	43	51.7	46.1	49.0	+ 5.8	40	0	7	1.32	+ 0.44	2.2	*	*	*
	Clifton	56	41	52.9	45.0	49.1	+ 9.6	50	0	7	1.32	+ 0.56	*	—	18	—
	Bath	58	27	54.7	43.1	49.1	+ 9.1	50	0	6	0.75	—	10.0	*	*	*
	Arlington (N. Devon)	54	39	51.1	43.3	47.4	+ 7.4	38	0	7	2.60	+ 1.40	*	- 3.0	12	- 5
	Cullompton	56	40	53.1	44.7	49.1	+ 9.6	50	0	6	1.03	+ 0.23	6.5	- 8.4	8	- 15
	Falmouth	54	43	52.1	46.4	47.4	+ 3.6	38	0	7	1.88	+ 0.68	4.3	- 4.8	12	- 8
10. IRELAND, S.	Plymouth	54	36	52.2	46.1	49.3	+ 6.9	51	0	6	1.19	+ 0.27	6.9	*	*	*
	Malin Head	50	39	47.0	42.4	45.3	+ 3.7	23	0	7	0.76	—	*	*	*	*
	Edenfel (Omagh)	51	31	48.1	38.9	43.7	+ 6.0	25	9	7	1.17	+ 0.34	*	*	*	*
	Blacksod Point	52	37	50.4	43.0	46.9	+ 4.2	34	0	7	1.61	—	*	*	*	*
	Markree Castle	52	32	48.2	38.9	43.7	+ 4.5	25	9	7	1.28	+ 0.36	3.8	- 5.0	7	- 10
	Armagh	52	36	48.8	40.6	44.9	+ 6.2	26	4	7	0.89	+ 0.15	5.6	- 4.1	11	- 7
CHANNEL ISLANDS	Donaghadee	53	35	49.0	39.9	44.6	+ 3.9	27	6	5	0.72	+ 0.06	*	*	*	*
	Dublin	56	37	51.9	42.2	47.2	+ 5.8	36	0	5	0.32	- 0.21	6.2	- 6.4	12	- 12
	Parsonstown	53	32	50.1	39.4	45.0	+ 5.4	32	7	7	1.04	+ 0.36	8.7	- 2.3	17	- 4
	Kilkenny	54	29	50.9	39.6	45.5	+ 4.8	35	7	6	0.83	+ 0.07	*	*	*	*
	Roche's Point	53	41	51.4	44.7	48.2	+ 4.7	43	0	6	1.17	- 0.05	*	*	*	*
	Valencia	54	39	52.3	44.7	48.7	+ 3.9	47	0	7	1.70	+ 0.28	7.1	- 4.1	13	- 7
CHANNEL ISLANDS	Killarney	?	29	?	41.5	?	?	?	?	6	1.71	+ 0.17	*	*	*	*
	Foynes	54	38	51.5	40.9	46.4	+ 4.8	35	3	5	0.59	- 0.32	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	46	53.4	48.3	51.0	+ 4.6	63	0	7	1.06	+ 0.19	4.3	—	8	—
	Jersey	55	44	53.0	47.7	50.5	+ 7.6	60	0	7	0.89	+ 0.10	6.6	- 8.1	12	- 13

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

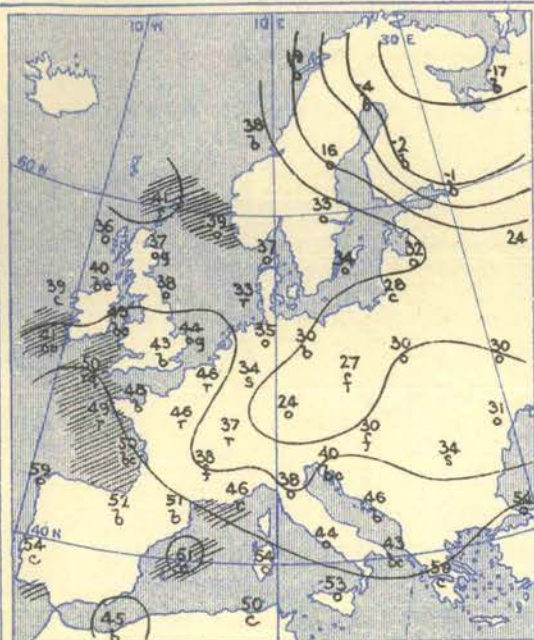
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 29th December.

Temperature and Weather.

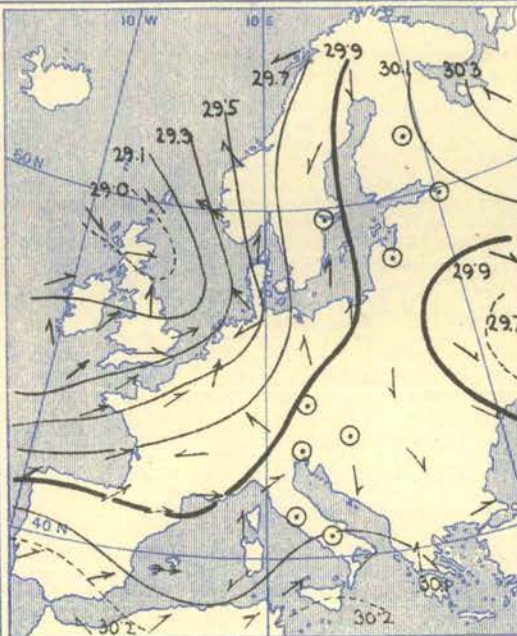
8 a.m.



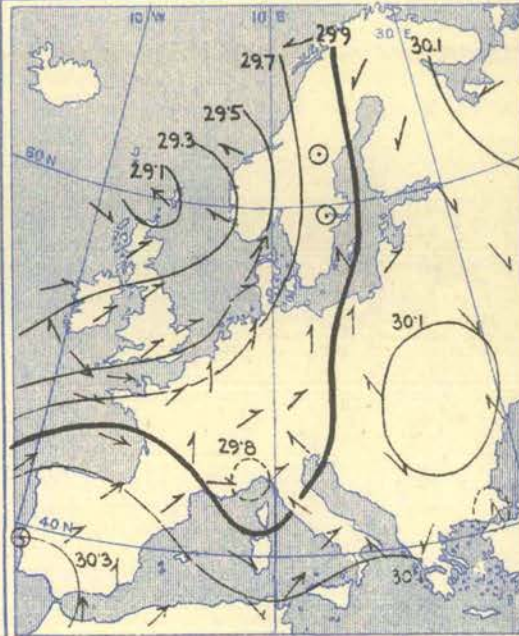
Weather in morning temporarily fine in the south of England, and also in the west of Norway and the south-west of France. Cloudy or dull elsewhere, with fog over central France, and also in Austria and south Germany. Showers falling in Ireland, and steady rain in the extreme north of Scotland, as well as in the Netherlands and the north-east of France; snow reported at Frankfurt and Moscow. Rain falling later over practically the whole of western, central, and southern Europe, and snow in some parts of the northern countries. Temperature risen over Great Britain, the Netherlands, and the greater part of France, but fallen in most other countries. Morning readings highest, 61° at Palma, 59° at Corunna, and 57° at Barcelona, Alicante, and Algiers; above 50° at most of the Mediterranean and Spanish coast stations, and just touching that point in the Scilly Islands and the west of France. Lowest—17° Fahr. at Archangel—4° at Haparanda, and 2° at Kuopio; below the freezing point over northern and central Europe generally. Rising during day to 50°, or slightly above it, on several parts of our own southern coasts; exceeding 55° in many parts of southern Europe, and reaching 60° at Palermo and Alicante.

Barometer and Wind.

8 a.m.



6 p.m.



Wind South-Westerly over England, France, and the Spanish Peninsula; light to fresh in force generally, but blowing very strongly at the mouth of the Channel; light from the Westward in Scotland. South-Easterly in Norway, Denmark, and Germany, with a gale at Skudesnaes. Northerly or North-Easterly in the Gulf of Bothnia; light and variable over northern Russia; variable also in Spain and Greece. No decided change occurring later.

Barometer highest, (1) 30.3 ins. and upwards in the extreme north of Russia; (2) 30.2 ins. and upwards over Spain, Morocco, and western Algeria. Lowest, (1) 29.0 ins. and less in a cyclonic system, with its central area lying over Scotland and the adjacent parts of the North Sea; (2) 29.6 ins. and less in a shallow disturbance over the south of Russia. Scotch depression subsequently moving northwards and partially filling up; barometer rising over western Europe generally.

Monday, 30th December.

Temperature and Weather.

8 a.m.

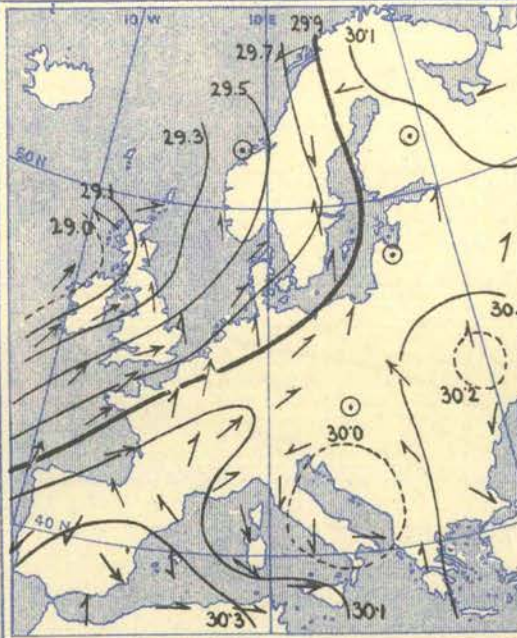


Weather in morning cloudy or dull over Europe as a whole, but fine in the Riviera. Rainy in many parts of our Islands, the north of France, at Brussels and Münster, and rain or snow prevailing in Sweden; rain also at Madrid and Patras. Rain falling later over the whole of the United Kingdom, the Netherlands, and the greater part of France and Germany, and slight snow in different parts of Russia.

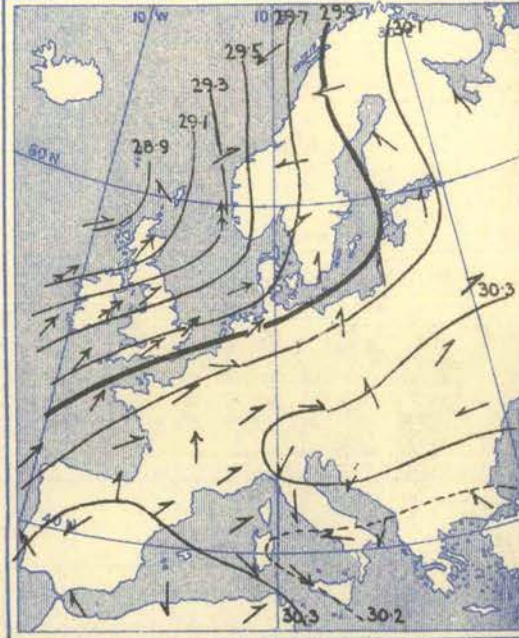
Temperature risen generally. Readings at 8 a.m. highest, 57° at Algiers and Corunna, 55° at Biarritz and Palermo; above 50° over the south and south-west of our Islands. Lowest, +1° at Archangel and Uleaborg, 6° at Helsingfors, and much below freezing point over northern and eastern Europe generally. Lowest at our own stations, 30° at Shields. Rising during day to 56° at Oxford and in London, to 61° at Biarritz, 65° at Perpignan, and to between 61° and 66° on the Algerian coast.

Barometer and Wind.

8 a.m.



6 p.m.



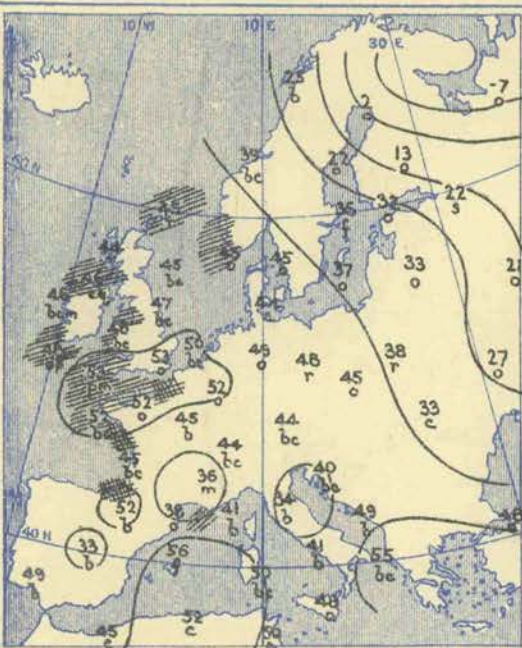
Wind in morning South-Westerly over France and Germany, and fresh or strong from South-West, South, or South-East over our Islands; feeble cyclonic circulation over Italy and its neighbourhood, and an anticyclonic movement over southern Russia. Wind over northern Europe light and variable. No material change later, but winds veering in most parts of north-western Europe, and increasing to a gale in several parts of England.

Barometer fallen in the north-west of Ireland, but risen in all other parts of western Europe. Readings at 8 a.m. highest, 30.3 ins. and upwards over the south of Spain and Algeria, and 30.2 ins. and upwards over the south of Russia; above 30.1 ins. over the north-east of Russia and the White Sea. Lowest, 29.9 ins. and less off our north-west coasts, and below 29.7 ins. over the whole of the United Kingdom, the North Sea, and most of Scandinavia. Cyclonic disturbance moving north-north-eastwards during day; barometer rising somewhat decidedly over southern and south-eastern Europe.

Tuesday, 31st December.

Temperature and Weather.

8 a.m.

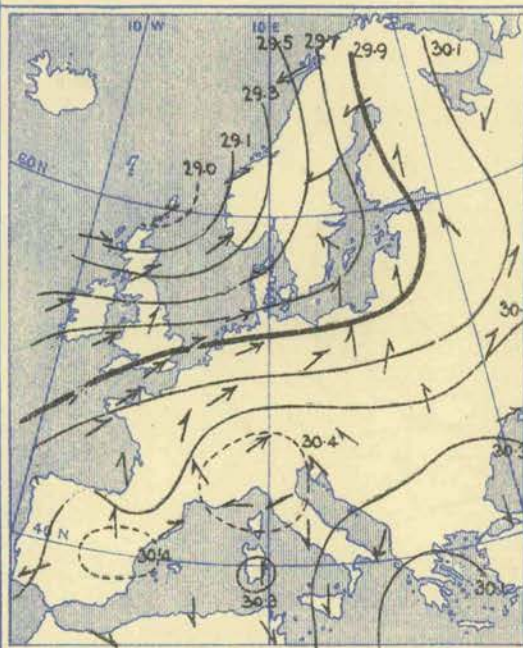


Weather in morning fine and bright in most parts of southern Europe, France, and at some of our own stations. Cloudy or dull elsewhere, with showers on our south-western coasts; rain in the extreme north of Scotland, and at Memel, and snow at St. Petersburg. Rain later in all parts of our Islands, and at some of the German stations, and rain or snow in Scandinavia. Amount of snow very large (0.8 in.) at Hernösand. Evening information not received for the greater part of the Continent.

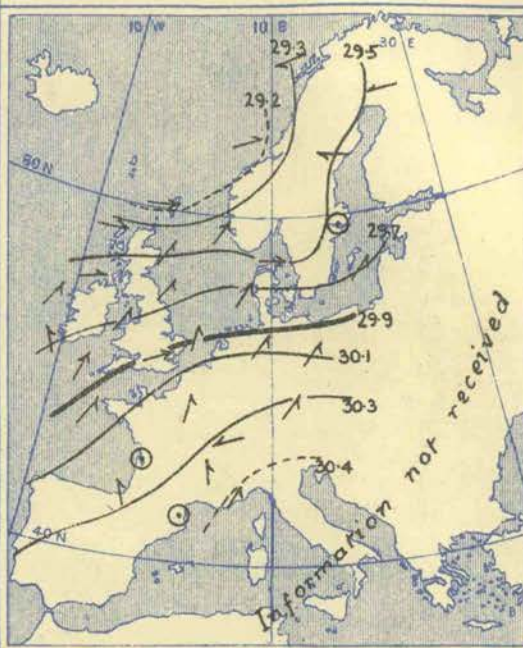
Temperature risen over northern and eastern Europe, and fallen in most southern regions. Highest at 8 a.m., 55° at Brindisi, and 50° or above on the Algerian coast; between 61° and 55° over the south and south-west of England. Lowest, -7° at Archangel, +2° at Haparanda, and much below 32° over the northern parts of Scandinavia and Russia generally; 34° or 35° at Florence and Pesaro, 33° at Madrid. Lowest in the United Kingdom, 45° at Wick. Rising during day to 50° or rather above at most of our own southern and south-western stations, and to the unusually high value of 60° at Yarmouth. Maximum at Biarritz, 64°.

Barometer and Wind.

8 a.m.



6 p.m.



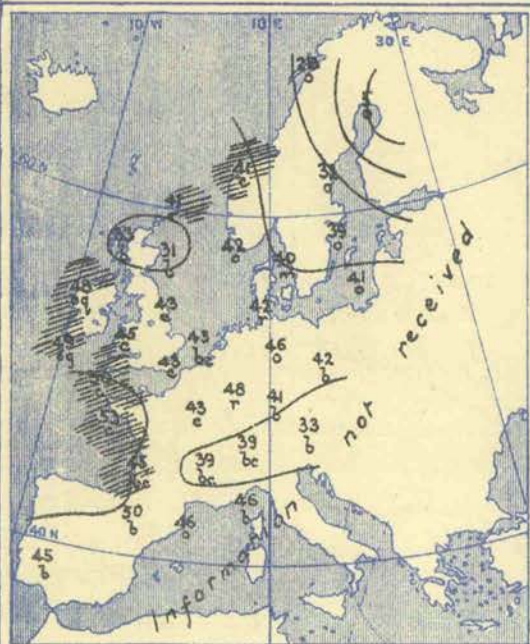
Wind in morning South-Westerly and Westerly over our Islands, the north of France, Germany, and Denmark, and Southerly to Easterly over Scandinavia and northern Russia. Moderate in force generally, but strong over Ireland and England, and blowing a gale at Münster. Light and variable in most southern countries, but strong from North-North-East at Brindisi. Not much change over the United Kingdom as a whole during day, but wind decreasing in force in Ireland, and increasing to the eastward of the North Sea.

Barometer falling in the northern countries, rising in the south. Readings at 8 a.m. highest, 30.1 ins. and upwards over central and western Spain, and also in another area over the east and south-east of France, Switzerland, Bavaria, the north of Italy and Corsica. Lowest, 29.0 ins. and less in a cyclonic system in the neighbourhood of the Shetlands, and below 30.0 ins. over the whole of north-western Europe; below 30.1 ins. in another, but shallow, disturbance over the Balkan Peninsula. Barometer rising briskly during day in Scotland, falling slightly on our southern coasts and over France.

Wednesday, 1st January, 1902.

Temperature and Weather.

8 a.m.

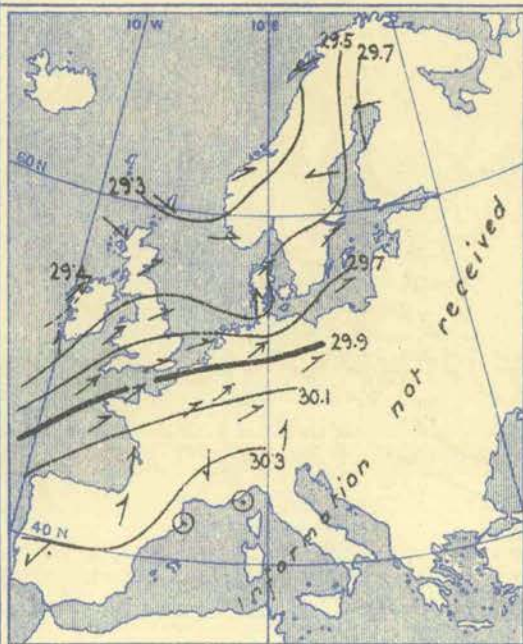


Very little information received from the Continent, but Weather in morning cloudy or dull over Scandinavia, Denmark, and in most parts of the United Kingdom. Rain falling at Sumburgh Head, and showers at some of our southern and western stations. Sky clear, or partially so, over Germany and France, and also in some Scotch districts. Rain later all over our Islands—heavy at some northern and western stations. Rain also falling in France and Germany, and rain or snow in Scandinavia.

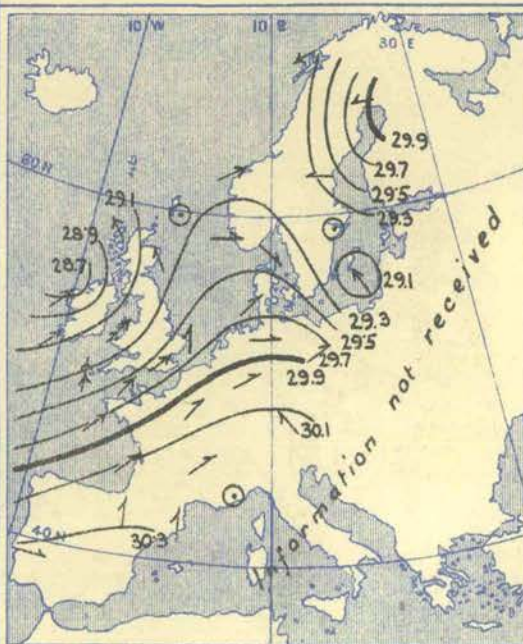
Temperature fallen generally. Highest at 8 a.m., 53° at Brest, and 50° at Scilly, Lorient, and Biarritz. Lowest, 5° at Haparanda, 28° at Bodø, 31° at Aberdeen, and 33° at Munich. Rising during day to 50° and upwards at our western and southern stations, to 57° at Lisbon and Nice, and to 61° at Biarritz; not exceeding 5° at Haparanda.

Barometer and Wind.

8 a.m.



6 p.m.



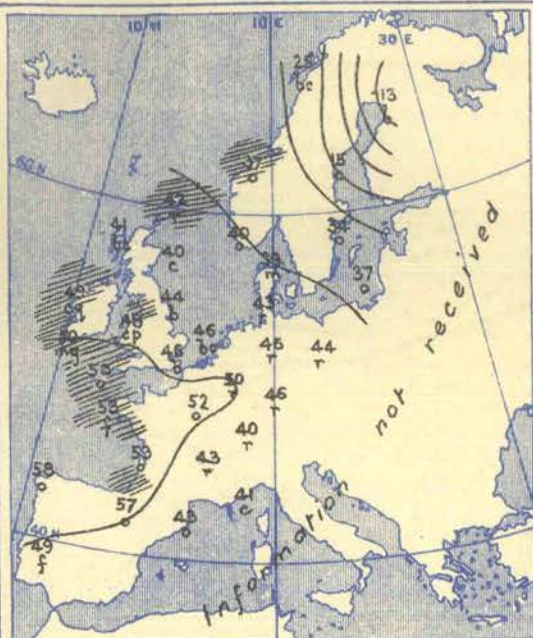
Wind at 8 a.m., Southerly and fresh in the west of Ireland, and South-Westerly or Westerly in most other parts of western Europe, but Easterly in the north of Scandinavia. Wind backing to South or South-East at most of our own stations later in day, and increasing to a gale on many parts of our coasts; not much change on the Continent.

Barometer risen in Scotland and the west of Norway, fallen elsewhere. Morning readings highest, 30.3 ins. and upwards over the south of France. Lowest, 29.3 ins. and less to the northward of the Shetlands, and off the coast of Norway. New and deep disturbance approaching our north-west coasts later, pressure decreasing rapidly in that region, and gradients becoming steep generally.

Thursday, 2nd January.

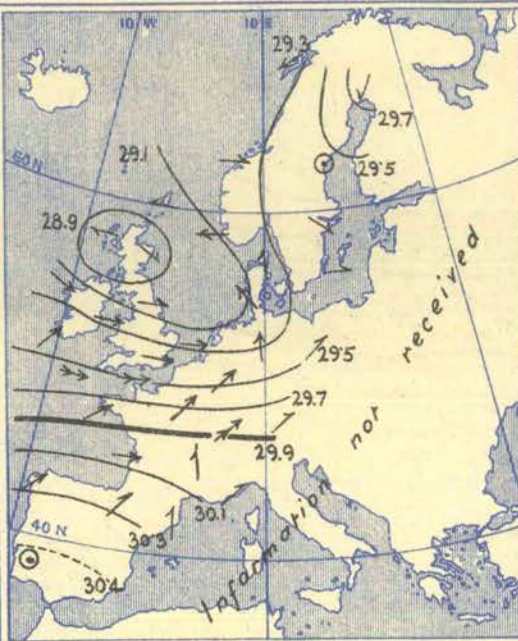
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Information from Continent mostly wanting. Weather over western and north-western Europe, cloudy or dull generally at 8 a.m., with rain in most parts of the United Kingdom, Denmark, Germany, and the east of France, and fog at Brest and Lorient. Rain continuing for some time during day over our Islands, but sky clearing in most places by night.

Temperature at 8 a.m. highest, 58° at Corunna, 57° at Biarritz, 58° at Scilly and Jersey, 52° at Paris, and 49° or 50° at several Irish stations. Lowest, -13° at Haparanda, +15° at Hernösand, 25° at Bodö, 26° at Karlstad. Lowest in our Islands, 39° at Nairn. Rising during day to between 50° and 54° at our southern and south-western stations, to 59° at Biarritz and Lisbon, and 62° at Perpignan. Remaining below 32° in north of Sweden; maximum at Haparanda as low as -4°.

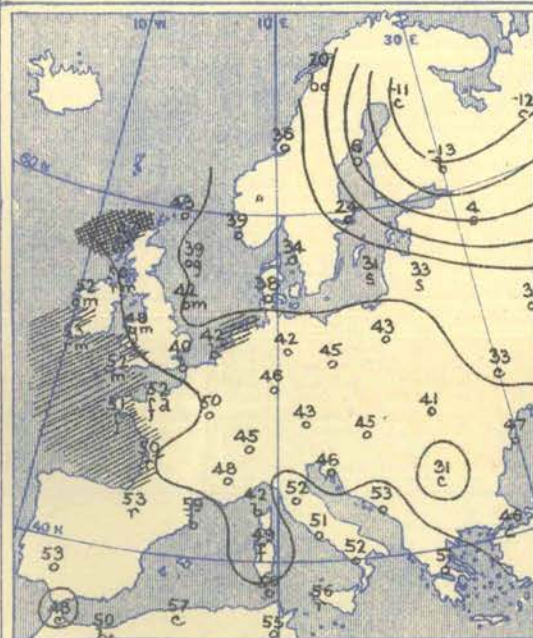
Wind in morning showing a complete cyclonic circulation, being strong to a gale from the Westward over Ireland, England, and France, strong from South in Germany, from South-East in Denmark, and from the Eastward in the south-west of Norway and north of Scotland. Light Westerly breezes prevailing in the south of Sweden, and North-Easterly winds in Lapland. Centre of circulation gradually transferred to Denmark by evening, and Westerly wind decreasing somewhat in force.

Barometer at 8 a.m. lowest, 28.8 ins. in the centre of a cyclonic system lying over Scotland, and highest, 30.4 ins. and upwards over the south of Spain. Relatively high, 29.3 ins. over the north of Finland. Scotch disturbance moving eastwards to Denmark during day, and growing less deep; barometer rising quickly over our Islands.

Friday, 3rd January.

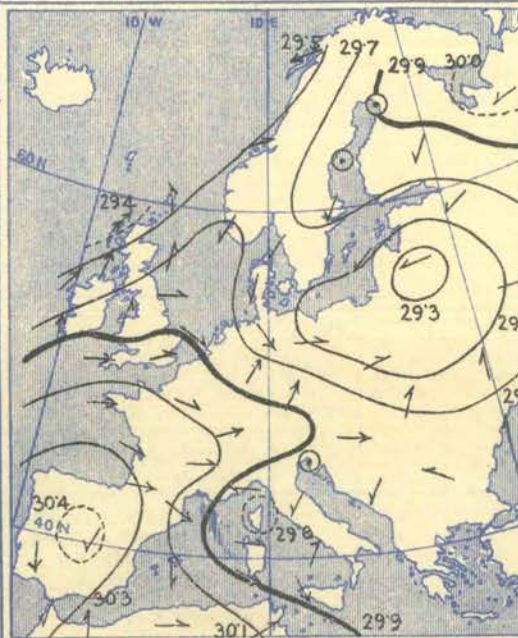
Temperature and Weather.

8 a.m.

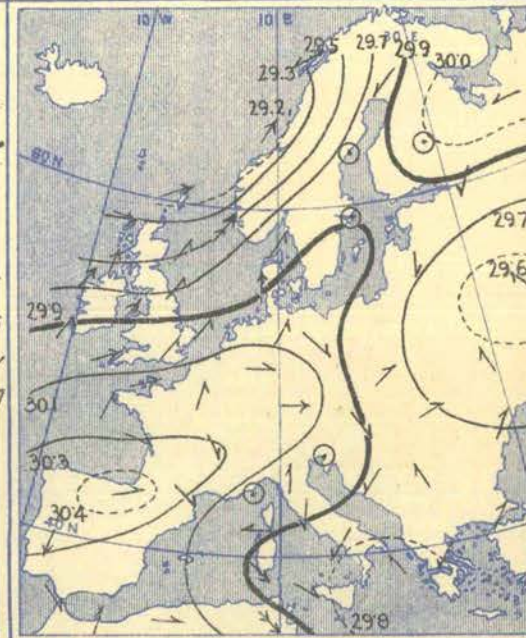


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over Europe as a whole, with rain on our own extreme west and north-west coasts, as well as in the south-west of France and in many parts of Germany; snow reported at Wisby. Fine in the east and south-east of England, and also in Lapland and the extreme south of France. Rain falling later in nearly all parts of western Europe, and snow in some of the northern countries. Lightning seen at night in the north of Scotland and the west of Norway.

Temperature fallen slightly over England and France, and more decidedly in Sweden and northern Russia, risen in most other countries. Morning readings highest, 60° at Palma, 59° at Perpignan, and 57° at Algiers, above 50° at most of the Mediterranean and Spanish coast stations, and also in the south-western parts of the United Kingdom. Rising during day to 50° and upwards over nearly the whole of our Islands, and to 55° at Leith. Exceeding 65° in most parts of southern Europe, and reaching 62° at Gap, and 64° at Perpignan.

Wind South-Westerly over the United Kingdom generally; light or moderate in force in most places, but strong to a gale on our extreme north-west coasts; light from the Westward or North-Westward in France; Northerly or North-Easterly over the Spanish Peninsula. Northerly or North-Easterly also over Scandinavia, Denmark, and northern Russia; Westerly or South-Westerly in Germany and Austria; Southerly in the south of Russia. Subsequently shifting to the South-Westward on the eastern shores of the North Sea, and increasing to a gale at Skudesnaes.

Barometer highest, 30.4 ins. and upwards over central Spain; 30.1 ins. and upwards in an anti-cyclone covering nearly the whole of the Spanish Peninsula, France, and Algeria; 30.0 ins. and upwards in the extreme north of Russia. Lowest, 29.3 ins. and less in a depression with its centre over the Baltic Provinces; 29.4 ins. and less in another disturbance lying off the north-west of Scotland. Former depression subsequently moving eastwards across Russia; latter disturbance travelling north-eastwards towards the Norwegian coasts.

Saturday, 4th January.

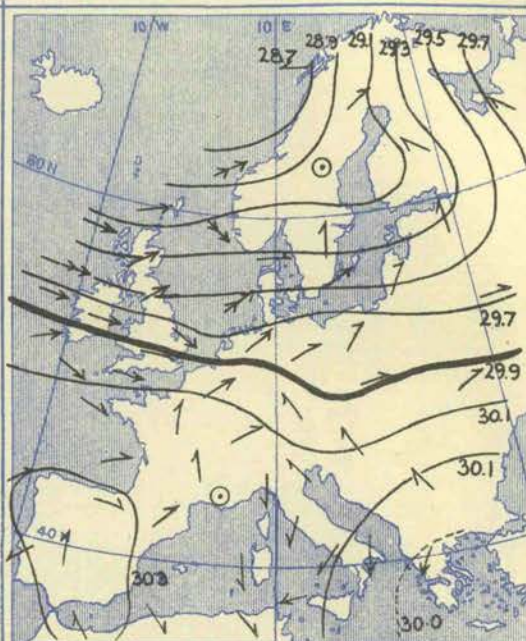
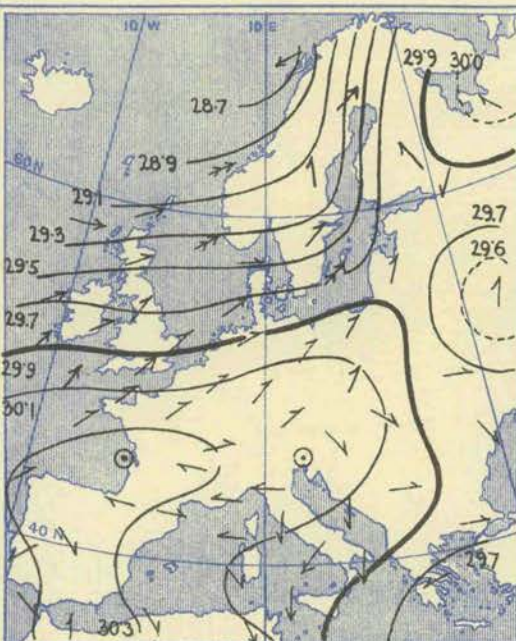
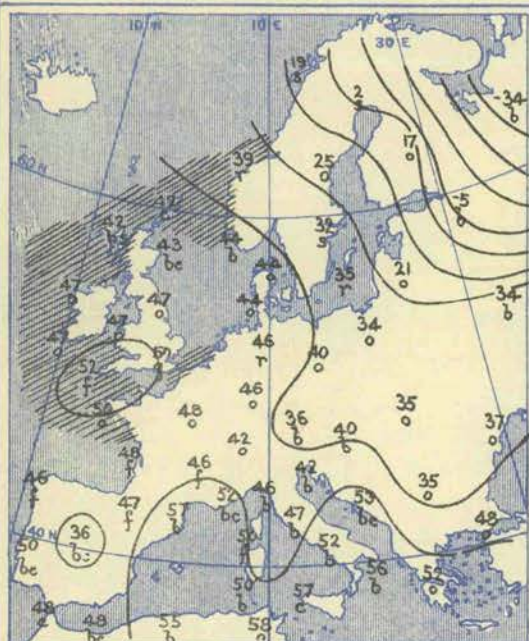
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in melting cloudy and unsettled over western and northern Europe generally, with fog over the Bay of Biscay and the western parts of the English Channel and with rain at several of our own western and northern stations, as well as at Christiansund, Wisby, and Cuxhaven; snow falling in many parts of Scandinavia. Fine over Austria and the whole of southern Europe. Rain falling later over nearly the whole of north-western and central Europe, and snow at many of the Russian stations.

Europe, and snow at many of the Russian stations. *Temperatures*.—Risen over England, the Netherlands, Denmark, and Scandinavia, but fallen in most of the other countries. Morning readings highest, 58° at Barcelona and La Calle, 57° at Perpignan and Palermo, and 56° at Brindisi. Over the Mediterranean and Adriatic generally, and also at some stations in the south of England. Lowest—34° at Antwerp, 32° at Amsterdam, 31° at Copenhagen, 30° at Stockholm, 29° at St. Petersburg, and 28° at Helsinki; and—5° at St. Petersburg; considerably below the freezing-point over the northern parts of Russia and Scandinavia generally. Rising during day to 50°, or slightly above it, at most of the English and French stations; exceeding 60° in many parts of Spain and southern Italy, and reaching 70° at Barcelona.

Wind South-Westerly over north-western and central Europe generally, and strong in force in many places, with a gale at some of the Scandinavian stations; South-Easterly or Easterly over northern Russia. Light from the North-Westward or Westward in Austria and the south of Russia; Northerly or North-Easterly in Italy; Easterly in the extreme south of France. Subsequently veering to the Westward in the west and south of our Islands; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over central Spain, 30.2 ins. and upwards in an anticyclone covering the whole of the Spanish Peninsula and the greater part of France and south Germany; 30.0 ins. and upwards in another system over the extreme north of Russia. Lowest, 28.7 ins. and less in a large cyclonic system with its centre off the coasts of Finmark; 29.6 ins. and less in a shallow disturbance over central Russia. Former depression subsequently spreading south-eastwards; disturbance over Russia moving eastwards and dispersing.

GENERAL NOTES.

At the commencement of this week two areas of high pressure existed—one over the north of Russia and the other over Spain and Algeria, the weather in the north-western countries being influenced by a cyclonic system lying over Scotland, and by small secondary disturbances which moved north-eastwards across England and the North Sea.

After December 29th, the Spanish high pressure system extended eastwards over the whole of Southern Europe, while the anticyclone in the north became somewhat reduced in intensity. Two well marked cyclonic areas now appeared over our Islands, the centre of the first moving north-eastwards outside the west and north of Scotland on December 30th, while the nucleus of the second advanced east-north-eastwards directly across Scotland on the night of January 1st, and afterwards travelled across the North Sea, Denmark and the Baltic to Western and Central Russia. The progress of each disturbance was attended by strong winds or gales from South-West or West on many parts of our own and the neighbouring coasts, with frequent falls of rain, and with a very high temperature.

After January 2nd, the Southern Anticyclone gave way and shallow low pressure systems appeared over Italy and the neighbouring parts of the Mediterranean. A new high pressure area soon appeared however over the Spanish Peninsula and at the close of the week this spread north-eastwards over France. In our islands the weather remained under the influence of cyclonic disturbances which skirted our north-western and northern coasts, the wind being strong to a gale from the South-Westward and the weather mild, squally and wet.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 2.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	6.3	+ 0.3	15	+ 1	BRIGHTON	8.2	- 9.3	15	- 6
STRATHPEFFER SPA	4.3	- 2.9	10	- 5	WORTHING	7.4	—	13	—
EDINBURGH	5.3	- 0.9	11	- 2	BOGNOR	7.9*	—	14*	—
MORPETH	16.7	—	33	—	WATERGATE (Emsworth)	4.4	—	8	—
NEWCASTLE-ON-TYNE	9.5	—	19	—	WESTBOURNE (Emsworth)	5.2*	- 7.0	9*	- 13
OSWALDKIRK (Yorkshire)	—	—	—	—	VENTNOR HOSPITAL	4.1	- 7.2	7	- 13
YORK	—	—	—	—	BOURNEMOUTH	4.8	—	9	—
LOWESTOFT	13.2	—	24	—	SOUTHPORT	11.0	—	22	—
HOLLESLEY BAY	18.2	—	34	—	RHYL	—*	—	*	—
SHEFFIELD	9.7	—	19	—	COLWYN BAY	—	—	—	—
WORKSOP	8.1	+ 0.6	16	+ 2	ABERDOVEY	1.8*	—	3*	—
THURCASTON (Leicestershire)	—	—	—	—	TENBY	2.3	- 9.7	4	18
MARGATE	? 15.8	? - 5.2	? 29	? - 10	NEWQUAY	2.3	- 8.9	5	- 16
BROADSTAIRS	9.2	—	17	—	TORQUAY	9.9	- 2.6	18	- 4
EASTBOURNE	4.8	- 7.7	9	- 13	CAHIR (Dunске)	—	—	—	—
					GUERNSEY	1.2*	- 9.8	2*	- 17

* The values at Hognor, Westbourne, Rhyl, Aberdovey, Cahir, and i Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 2.]
Fourth Series.

WEEK ENDING SATURDAY, JANUARY 11TH, 1902.

[Price 6d.
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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 8.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	24	45.6	37.8	41.9	4 above	Day-deg. 10	Day-deg. + 4	Day-deg. 19	Day-deg. -17	Day-deg. 19	Day-deg. + 6	Day-deg. 42	Day-deg. - 27
	1. SCOTLAND, EAST	52	22	46.1	38.0	42.2	5 above	18	+11	11	-31	27	+ 12	41	- 41
	2. ENGLAND, N.E.	52	30	47.7	38.8	43.6	6 above	22	+15	8	-29	50	+ 34	18	- 53
	3. ENGLAND, EAST	54	32	48.1	38.8	43.7	6 above	25	+17	9	-32	61	+ 44	13	- 66
	4. MIDLAND COUNTIES	57	33	48.4	40.0	44.4	7 above	25	+16	6	-37	58	+ 38	10	- 72
5. ENGLAND, SOUTH	53	35	48.5	41.3	45.0	6 above	24	+12	2	-31	64	+ 38	2	- 60	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	32	47.1	42.3	44.8	5 above	20	+10	0	-30	43	+ 21	4	- 52
	7. ENGLAND, N.W.	53	33	47.5	41.5	44.6	6 above	20	+10	1	-29	47	+ 25	2	- 55
	8. ENGLAND, S.W.	54	36	49.6	43.5	46.6	6 above	32	+16	0	-23	77	+ 43	0	- 43
	9. IRELAND, NORTH	50	33	46.6	41.1	43.9	4 above		+ 4	3	-23	43	+ 16	7	- 43
	10. IRELAND, SOUTH	55	34	49.7	43.2	46.6	5 above		+11	0	-21	66	+ 23	0	- 40
	-CHANNEL ISLANDS.	54	36	51.3	45.0	48.3	4 above		+20	0	-10	106	+ 54	0	- 17

DISTRICTS. (See p. 8.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	18	10ths of in. 5 more	14	+ 4	Ins. 3.9	+ 1.3	2	- 3	5	- 6	5	- 6	5	- 7
	1. SCOTLAND, EAST	3	2	5 less	9	+ 1	1.2	- 0.1	7	- 2	14	- 3	15	- 2	15	- 2
	2. ENGLAND, N.E.	2	2	3 less	7	- 1	0.9	- 0.0	6	- 3	12	- 7	18	+ 2	18	+ 2
	3. ENGLAND, EAST	2	1	4 less	7	- 1	0.7	- 0.2	6	- 5	10	-11	20	- 4	16	- 3
	4. MIDLAND COUNTIES	3	1	4 less	9	+ 1	1.3	+ 0.2	4	- 5	8	-10	12	- 7	11	- 6
5. ENGLAND, SOUTH	2	1	5 less	8	0	1.1	- 0.1	9	- 3	17	- 4	16	- 7	13	- 7	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	8	5 less	12	+ 3	2.9	+ 0.3	4	- 4	9	- 6	9	- 6	9	- 6
	7. ENGLAND, N.W.	5	6	2 less	11	+ 3	1.8	+ 0.3	5	- 3	9	- 6	12*	- 6	9	- 6
	8. ENGLAND, S.W.	3	2	3 less	10	+ 1	1.8	- 0.2	6	- 6	10	-11	12	- 13	10	-11
	9. IRELAND, NORTH	5	9	1 more	12	+ 3	2.0	+ 0.5	3	- 6	6	-12	8	- 11	8	-10
	10. IRELAND, SOUTH	4	6	4 less	10	+ 1	1.7	- 0.3	4	- 8	7	-15	12*	- 12	10	-12
	- CHANNEL ISLANDS.	2	less than half	8 less	9	0	1.0	- 0.6	9	- 3	16	- 5	13	- 12	12	-11

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was at first, fair mild, and dry, in all but the extreme western and northern districts where rain fell daily. After the middle of the week unsettled weather spread over the whole Kingdom but at its close conditions became again drier, with lower temperatures in the north, and snow showers in a few places.

Temperature was considerably above the mean, the excess being as much as 7° in the Midland Counties and 5° or 6° in all other districts excepting Ireland N. and the Channel Islands. The highest readings were recorded on somewhat irregular dates—mostly in the earlier half of the week in Scotland, but in the latter half in England and Ireland, the thermometer rising above 50° in nearly all districts, and reaching 57° in the Midland Counties (at Colly Weston on the 10th.) The lowest readings were observed in the earlier half of the week in the south, but in the latter half in the north. Over the western, central, and southern parts of the Kingdom there was an entire absence of frost, but in the northern districts some low readings were observed—mostly on the 11th when the thermometer fell to 22° in Scotland E. and 24° in Scotland N.

Rainfall was considerably less than the mean in all districts excepting Scotland N. and Ireland N., the amount being extremely small in all the more central and southern part of England.

Bright Sunshine was deficient over the whole Kingdom. The percentage of the possible duration ranged from 17 in England S. and 16 in the Channel Islands to only 6 in Ireland N. and 5 in Scotland N.

Barometer and Wind.—At the commencement of the week an anticyclone lay over and to the south-westward of our Islands, while low pressure systems moved eastwards across the north of Scandinavia, the wind being W. or N.W., and strong to a gale on many parts of our north and east coasts. After the 6th the anticyclone moved eastwards over France, and the wind in these Islands backed temporarily to the South-Westward. Later on, in the rear of a large cyclonic disturbance which skirted our extreme northern coasts, it again veered to W. or N.W., and blew hard in the extreme north. At the close of the period, however, a ridge of high pressure was formed over the United Kingdom, and while light N.W. breezes prevailed on our east coasts the wind in the west shifted to the South-Eastward or Eastward.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
										Inches.	Inches.					
0. SCOTLAND, N	Sumburgh Head	49	28	43.7	36.3	40.3	+ 1.1	5	23	7	1.48	+ 0.56	*	*	*	*
	Stornoway	51	28	46.4	38.9	42.8	+ 4.0	19	9	7	1.10	- 0.04	3.2	- 3.2	7	- 6
	Wick	51	30	46.3	37.3	42.0	+ 4.3	12	13	6	0.99	+ 0.45	*	*	*	*
	Laing	50	25	44.6	36.4	40.7	+ 5.8	7	23	6	1.50	+ 0.67	*	*	*	*
	Glencarron	49	24	44.9	37.5	41.4	+ 4.3	8	19	7	3.85	+ 1.57	*	*	*	*
	Fort Augustus	51	29	45.7	37.2	41.6	+ 3.4	10	20	6	1.55	+ 0.41	2.4	- 0.6	5	- 1
1. SCOTLAND, E.	Fort William	52	31	47.9	41.3	44.7	+ 5.9	22	2	7	1.87	- 0.29	0.7	- 3.9	1	- 8
	Nairn	52	30	47.0	39.1	43.2	+ 5.8	21	8	2	0.29	- 0.18	*	*	*	*
	Aberdeen	52	31	46.9	39.0	43.1	+ 5.5	20	8	2	0.02	- 0.54	7.9	- 2.8	16	- 6
	Braemar	47	24	42.5	35.7	39.2	+ 5.0	1	23	5	0.21	- 0.48	*	*	*	*
	Ochertyre-	51	22	45.4	36.6	41.2	+ 4.5	10	23	5	0.38	- 0.68	*	*	*	*
	Leith	52	31	48.0	40.3	44.3	+ 5.3	23	5	3	0.08	- 0.33	*	*	*	*
2. ENGLAND, N.E.	Marchmont	50	26	46.7	37.0	42.0	+ 5.7	13	14	1	0.03	- 0.59	7.0	- 1.6	14	- 3
	Alnwick Castle	52	30	48.1	40.5	44.5	+ 6.6	24	4	1	0.05	- 0.49	*	*	*	*
	Durham	?	32	?	39.9	?	?	?	?	2	0.22	- 0.25	4.8	- 5.4	9	-10
	Shields	52	32	47.3	39.1	43.4	+ 4.8	22	8	2	0.11	- 0.31	*	*	*	*
	Scarborough	52	33	47.5	38.2	43.0	+ 4.5	23	11	2	0.38	- 0.12	6.1	-	12	-
	Spurn Head	51	37	47.9	39.4	43.8	+ 5.3	24	7	2	0.10	- 0.27	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	52	36	47.6	39.0	43.5	+ 7.1	23	8	2	0.11	- 0.29	*	*	*	*
	Hillington	52	32	48.4	38.3	43.6	+ 6.8	27	10	2	0.05	- 0.43	4.3	- 5.5	8	-10
	Yarmouth-	52	35	47.1	38.7	43.1	+ 5.7	22	9	2	0.03	- 0.43	*	*	*	*
	Geldeston	53	33	49.2	38.7	44.2	+ 6.3	29	9	1	0.04	- 0.35	3.2	- 8.3	6	-14
	Cambridge	54	35	50.2	38.9	44.8	+ 7.4	33	9	1	0.05	- 0.30	4.4	- 6.0	8	-11
	Felixstowe	50	35	46.1	39.7	43.0	+ 4.7	17	6	2	0.03	-	8.5†	-†	16†	-†
4. MIDLAND COUNTIES	Rothamsted	52	37	47.3	38.7	43.2	+ 6.0	22	9	3	0.07	- 0.49	6.0	- 4.0	11	- 7
	Bawtry (Hesley Hall)	53	38	49.6	41.4	45.7	+ 8.3	28	2	3	0.16	- 0.26	*	*	*	*
	Loughborough	52	40	48.4	41.1	44.9	+ 7.3	24	3	2	0.12	- 0.35	*	*	*	*
	Colly Weston (Stamford)	57	36	49.0	38.9	44.2	+ 7.2	28	9	2	0.06	-	*	*	*	*
	Cheadle	50	33	46.9	38.9	43.1	+ 6.5	21	9	4	0.15	- 0.49	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	53	36	48.1	39.8	44.1	+ 6.2	24	6	1	0.05	- 0.43	2.5	-	5	-
5. ENGLAND, S	Churchstoke	51	36	48.0	40.7	44.5	+ 6.8	23	4	5	0.17	- 0.49	2.9	- 7.0	5	-13
	Hereford	56	33	48.4	39.5	44.1	+ 5.7	25	7	3	0.13	- 0.43	*	*	*	*
	Cirencester	52	34	48.7	39.0	44.0	+ 6.5	27	8	2	0.05	- 0.59	0.0	-10.2	0	-19
	Oxford	52	38	48.3	40.9	44.8	+ 6.4	24	3	2	0.04	- 0.42	7.4	- 2.8	14	4
	London	53	36	49.0	41.0	45.2	+ 6.4	27	3	3	0.06	- 0.38	3.5†	- 1.8†	6†	- 4†
	Swarraton (Alresford)	51	37	48.1	40.7	44.6	+ 7.0	24	4	1	0.05	- 0.66	*	*	*	*
6. SCOTLAND, W.	Dungeness	53	35	48.6	39.9	44.4	+ 4.9	26	6	3	0.07	- 0.37	6.9	-	12	-
	Hastings (St. Leonards)	50	36	47.8	40.7	44.4	+ 4.8	22	4	4	0.14	- 0.49	10.3	- 3.1	18	- 5
	Southampton	52	37	49.9	40.8	45.5	+ 5.7	30	3	2	0.10	- 0.61	8.1	- 3.2	14	- 5
	Portland Bill	51	43	49.3	45.9	47.7	+ 6.2	40	0	2	0.08	-	*	*	*	*
	Shaftesbury	50	36	46.7	40.1	43.5	+ 6.2	18	5	0	-	- 0.68	*	*	*	*
	Laudale (Loch Sunart)	52	37	48.7	43.5	46.2	+ 6.1	29	0	7	1.58	- 0.36	*	*	*	*
7. ENGLAND, N.W.	Glasgow	50	32	46.1	40.9	43.6	+ 5.2	16	3	5	0.37	- 0.51	5.5	+ 0.5	11	+ 1
	Glenlee	50	36	46.6	42.4	44.6	+ 3.8	18	0	4	0.52	- 0.50	3.0	- 7.7	6	-14
	Douglas (Isle of Man)	50	36	46.6	42.4	44.6	+ 3.8	18	0	4	0.52	- 0.50	3.0	- 7.7	6	-14
	Newton Reigny	49	33	44.6	39.4	42.1	+ 6.1	12	7	5	0.53	-	5.2	-	10	-
	Stonyhurst	50	34	46.3	40.9	43.7	+ 6.0	17	3	6	0.96	- 0.02	6.7	- 0.6	13	0
	Blackpool	49	37	47.8	41.7	44.9	+ 6.5	22	1	5	0.64	- 0.04	4.3	- 3.1	9	- 5
8. ENGLAND, S.W.	Manchester (Prestwich)	52	34	46.8	40.9	44.0	+ 6.1	19	3	6	0.42	- 0.34	5.1	-	10	-
	Liverpool Obsy. (Bidston)	52	39	48.4	41.7	45.2	+ 5.7	24	1	4	0.48	- 0.06	3.4	-	6	-
	Chester (Hawarden Bridge)	53	37	50.0	42.4	46.4	+ 6.4	31	0	3	0.18	-	*	*	*	*
	Llandudno	51	35	47.8	42.4	45.2	+ 3.7	22	0	6	0.68	+ 0.03	2.8	- 6.8	5	-13
	Holyhead	50	38	48.0	42.7	45.5	+ 3.2	25	0	5	0.63	- 0.14	*	*	*	*
	Llandovery	50	39	48.6	42.6	45.7	+ 7.6	26	0	5	0.35	- 0.83	*	*	*	*
9. IRELAND, N.	Pembroke	52	43	50.0	44.4	47.3	+ 4.5	37	0	2	0.06	- 0.81	7.9	- 8.7	15	- 6
	Clifton	52	41	49.3	43.0	46.3	+ 6.6	30	0	3	0.15	- 0.62	*	*	*	*
	Bath	54	36	50.6	42.1	46.5	+ 6.7	32	0	3	0.11	-	5.2	-	9	-
	Arlington (N. Devon)	51	40	47.7	41.9	44.9	+ 5.0	21	0	3	0.39	- 0.71	*	*	*	*
	Cullompton	52	36	50.1	42.7	46.6	+ 7.0	32	0	1	0.03	- 0.75	3.5	- 6.1	6	-11
	Falmouth	52	43	49.8	45.3	47.6	+ 4.0	39	0	3	0.10	- 1.08	7.7	- 5.0	14	- 8
10. IRELAND, S.	Plymouth	52	42	50.4	45.6	48.1	+ 6.1	43	0	1	0.08	- 0.81	2.6	- 8.6	5	-15
	Malin Head	48	36	45.9	41.7	43.9	+ 2.5	15	1	6	0.66	-	*	*	*	*
	Edenfel (Omagh)	49	33	45.3	40.1	42.8	+ 5.1	14	5	6	0.90	+ 0.10	*	*	*	*
	Blacksod Point	50	37	48.0	42.3	45.3	+ 2.6	23	0	7	1.49	-	*	*	*	*
	Markree Castle	49	35	46.5	41.3	44.0	+ 4.7	17	2	6	1.03	+ 0.15	2.0	- 7.0	4	-13
	Armagh	50	36	46.7	40.5	43.7	+ 5.0	18	4	3	0.66	+ 0.03	4.0	- 5.8	8	-10
CHANNEL ISLANDS	Donaghadee	50	33	47.0	40.6	43.9	+ 3.2	19	4	3	0.52	- 0.12	*	*	*	*
	Dublin	55	38	49.8	42.3	46.2	+ 4.7	29	0	3	0.90	+ 0.37	5.0	- 7.7	39	-15
	Parsonstown	52	34	48.6	40.0	44.5	+ 4.9	26	6	5	0.62	- 0.05	3.7	- 7.6	7	-14
	Kilkenny	54	38	49.4	41.7	45.7	+ 4.9	27	1	4	0.37	- 0.39	*	*	*	*
	Roche's Point	52	40	49.9	44.9	47.5	+ 4.0	39	0	3	0.21	- 0.97	*	*	*	*
	Valencia	53	45	51.0	46.9	49.0	+ 4.2	49	0	6	0.24	- 1.14	2.7	- 9.0	5	-16
CHANNEL ISLANDS	Killarney	?	39	?	43.0	?	?	?	?	4	0.48	- 0.98	*	*	*	*
	Foynes	53	38	49.5	43.2	46.5	+ 4.9	32	0	3	1.24	+ 0.89	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	45	52.0	46.4	49.3	+ 3.1	51	0	1	0.02	- 0.88	8.6	-	15	-
	Jersey	53	36	50.6	43.6	47.2	+ 4.6	36	0	2	0.02	- 0.73	11.9	- 2.9	21	- 4

Stations marked $\mathcal{R}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 5th January.

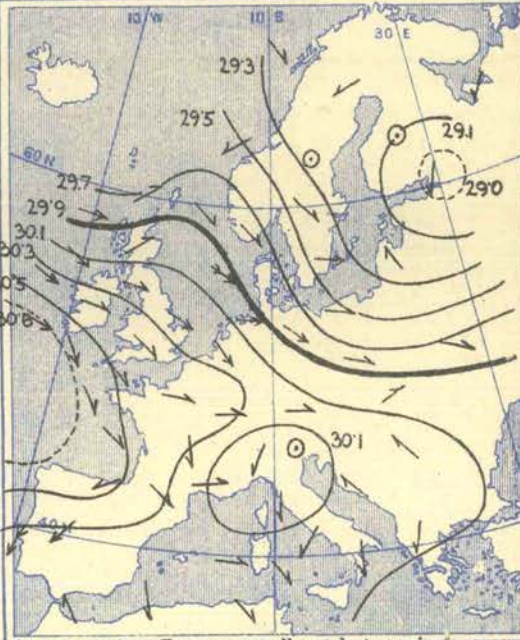
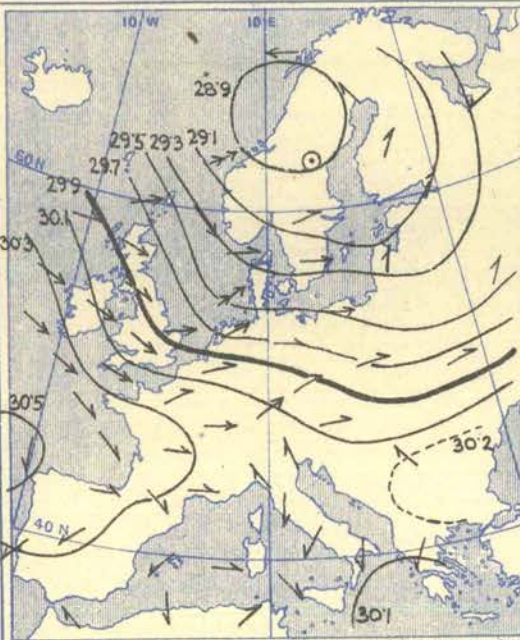
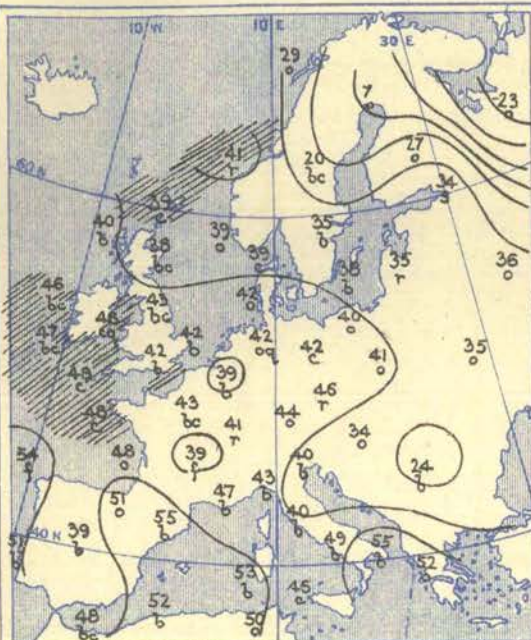
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair or fine over western and southern Europe as a whole, but dull and showery over central England. Fine also in Sweden, but dull over the northern, eastern, and central countries generally, with rain at Christiansund and Riga, and snow at Uleaborg and St. Petersburg. Rain falling later in the extreme west and north of our Islands, as well as in many parts of Scandinavia, Denmark, and Germany, and snow in Finland.

Temperature fallen a little in most of the western and southern countries, but risen elsewhere. Morning readings highest, 58° at Palma, 55° at Barcelona and Brindisi, and 54° at Corunna; above 50° at most of the Mediterranean and Spanish coast stations, and very little below it in the Scilly and Channel Islands. Lowest (1) - 23° Fahr. at Archangel, + 7° at Haparanda, and 20° at Hernösand; (2) 24° at Hermanstadt, and 31° at Kharkov. Rising during day to between 45° and 50° over the United Kingdom generally, and to 52° at Aberdeen; exceeding 55° in most parts of southern Europe, and exceeding 60° over Sicily and the Spanish Peninsula; the highest reading reported being 64° at San Fernando.

Wind North-Westerly or Westerly over western Europe generally, and strong in force on several of the more exposed parts of our own coasts, with a moderate gale in the Irish Sea. South-Westerly or Westerly over Germany, Denmark, and the greater part of Scandinavia, with a strong gale at Christiansund and Fanö; light from the Eastward or South-Eastward in the extreme northern parts of Russia and Scandinavia. Variable in Austria; light from the Northward or North-Eastward in Spain, Italy, and Greece. Subsequently veering to the North-Westward on the eastern shores of the North Sea; no material change occurring elsewhere.

Barometer highest, 30.5 ins. and upwards in the north-west of Spain; 30.2 ins. and upwards in an anticyclone extending from the Atlantic over the south-west of our Islands, and the whole of France, Spain, and Algeria, and also in another system over Turkey. Lowest, 28.9 ins. and less in a large and rather deep depression with its centre over the north of Scandinavia. Atlantic high pressure system subsequently spreading over the whole of Ireland and England; Scandinavian depression moving south-eastwards over Russia.

Monday, 6th January.

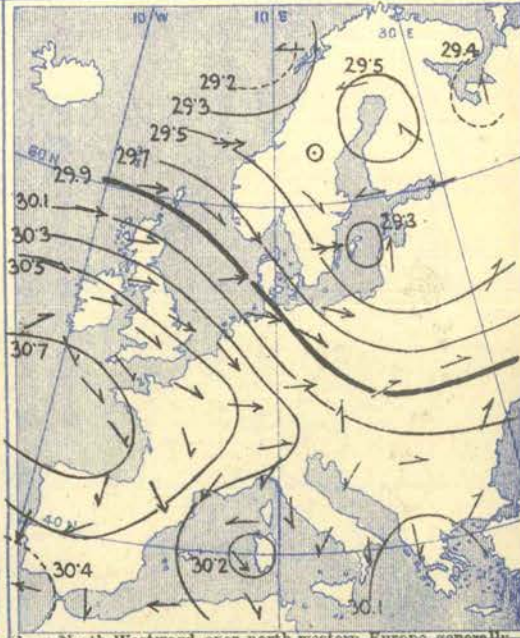
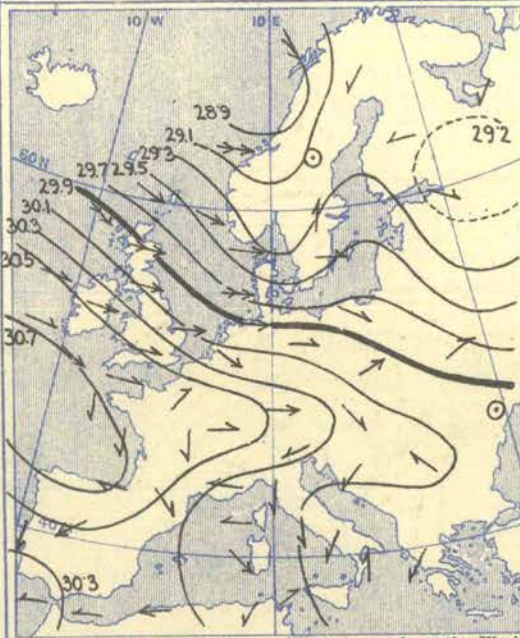
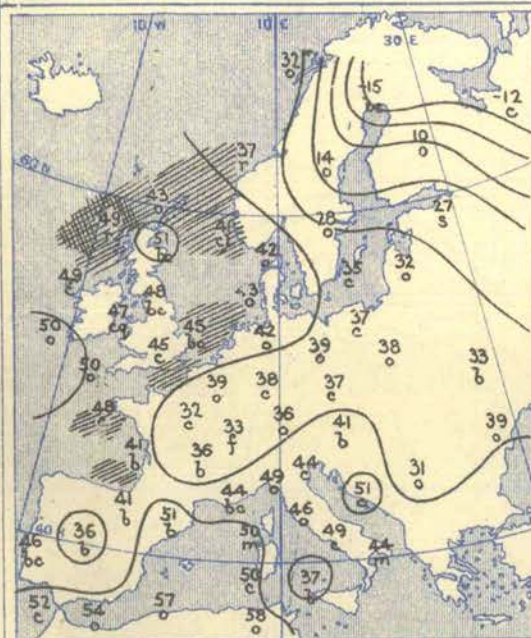
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine on the east coasts of Great Britain, and also over Greece, the Spanish Peninsula, and the south of France. Cloudy or dull in nearly all other parts of Europe, with rain in the extreme north of Scotland, and also at Christiansund and Copenhagen; snow falling at Karlstadt and St. Petersburg. Slight rain falling later in the extreme west and north of our Islands, and somewhat larger quantities at several of the Norwegian, German, and Austrian stations; snow occurring in many parts of Sweden and northern Russia.

Temperature risen over our Islands, Denmark, and the Netherlands, fallen in most other countries—rapidly in Lapland. Morning readings highest, 66° at La Calle, 67° at Algiers, and 54° at Oran; slightly above 50° at several of the Mediterranean and Adriatic stations, and also in some parts of Scotland; above 45° in most parts of the United Kingdom. Lowest, - 15° Fahr. at Haparanda—12° at Archangel—4° at Uleaborg, and + 10° at Kuopio. Rising during day to 50°, or slightly above it, in many parts of the United Kingdom, and the north and west of France; exceeding 55° over southern Europe as a whole, and reaching 63° at San Fernando.

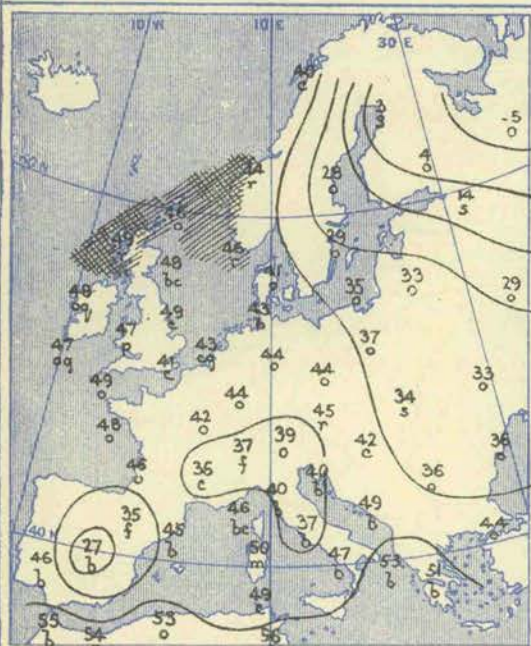
Wind strong from the Westward or North-Westward over north-western Europe generally, with a gale on several parts of our own north and east coasts, and also on the eastern shores of the North Sea; light from the Southward or South-Westward in the south of Sweden; Northerly or North-Easterly in the extreme northern parts of Russia and Scandinavia. Light to moderate from the Northward in the west and south of France, and from the North-Eastward over Italy and the Adriatic, strong from the latter quarter over the Spanish Peninsula; no important change occurring during day.

Barometer highest, 30.7 ins. and upwards over the Bay of Biscay; 30.3 ins. and upwards in an anticyclone extending from the Atlantic over Spain, France, south Germany, and all the more western and southern parts of the United Kingdom. Lowest, 28.9 ins. and less in a large and rather deep cyclonic system with its centre off the north-west of Norway; 29.2 ins. and less in a shallower disturbance over northern Russia. Depression off Norwegian coasts remaining almost stationary during day, but well marked secondary system appearing over the Baltic Provinces.

Tuesday, 7th January.

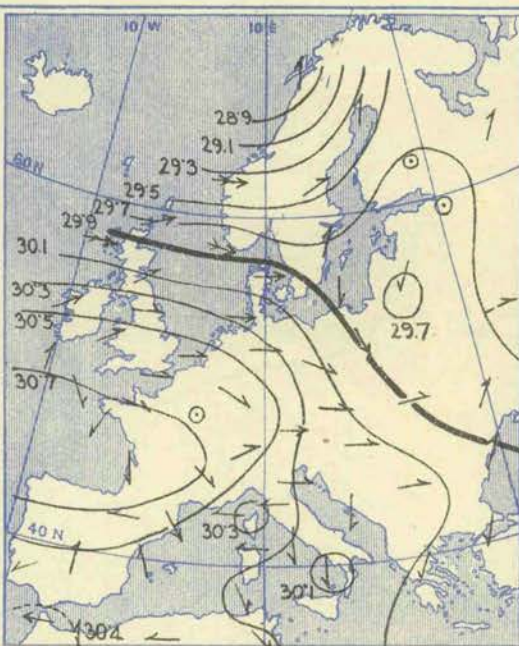
Temperature and Weather.

8 a.m.

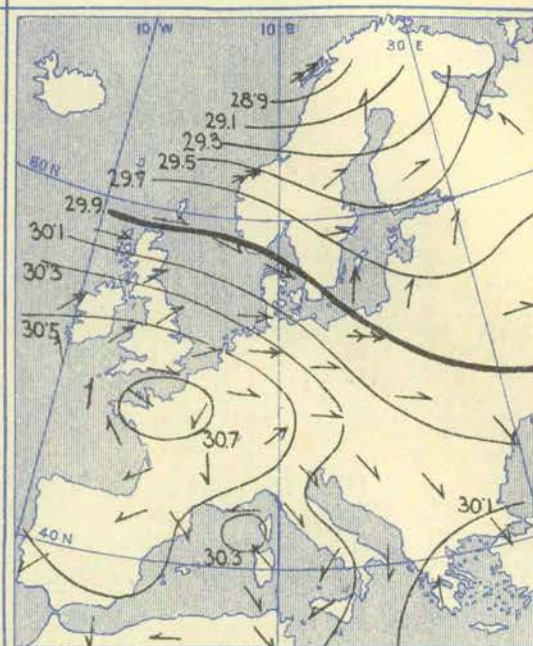


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western, northern, and central Europe generally, with rain in the Hebrides and the west of Norway, as well as in some parts of south Germany and Austria; snow falling at Uleaborg, St. Petersburg, and Lemberg. Fine in the east of Scotland, and also over the greater part of southern Europe. Rain falling later in the extreme west and north of our Islands; no important change occurring elsewhere.

Temperature fallen slightly in our Islands, and more decidedly in Russia and Italy, risen elsewhere—quickly over the Gulf of Bothnia. Morning readings highest, 56° at La Calle, 55° at San Fernando, and 54° at Nemours; above 50° in all the more western and northern parts of the United Kingdom, and touching 50° at Nahr. Lowest, -5° Fahr. at Archangel, +3° at Uleaborg, 4° at Kuopio, and 5° at Haparanda; below the freezing point in most parts of Sweden and Russia. Rising during day to 50°, or slightly above it, at several of our own western and northern stations; exceeding 55° in most parts of southern Europe, and reaching 62° at Palermo.

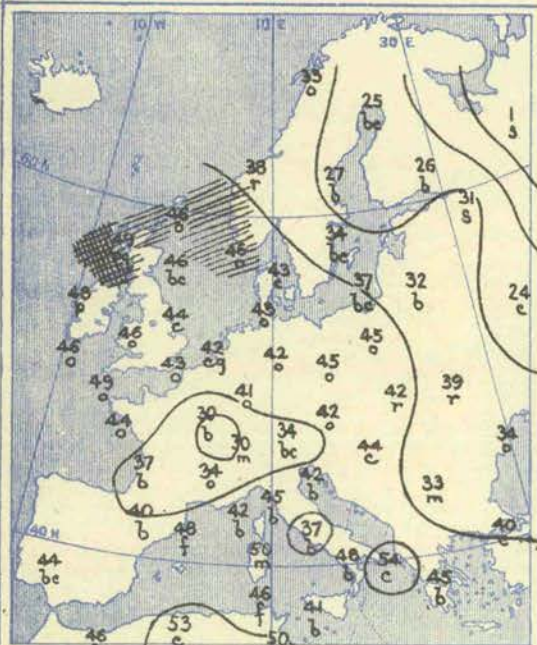
Wind Westerly over Great Britain and the countries lying to the eastward of the North Sea, and strong to a gale in force in the extreme north of Scotland and the west of Norway; Southerly in Sweden; calm in Finland. Light to fresh from the Southward or South-Westward in Ireland. North-Westerly in the English Channel, and also in eastern Germany and Austria; Northerly in Italy; Easterly or North-Easterly over the Spanish Peninsula; no important change occurring during day.

Barometer highest, 30.7 ins. and upwards over the Bay of Biscay and the greater part of France; 30.3 ins. and upwards in an anticyclone covering England, Ireland, and the western parts of the Continent generally. Lowest, 28.9 ins. and less in a large and deep cyclonic system with its centre off the coasts of Finnmark. Latter system remaining almost stationary during day, but small secondary disturbance moving eastwards across Scandinavia and Finland.

Wednesday, 8th January.

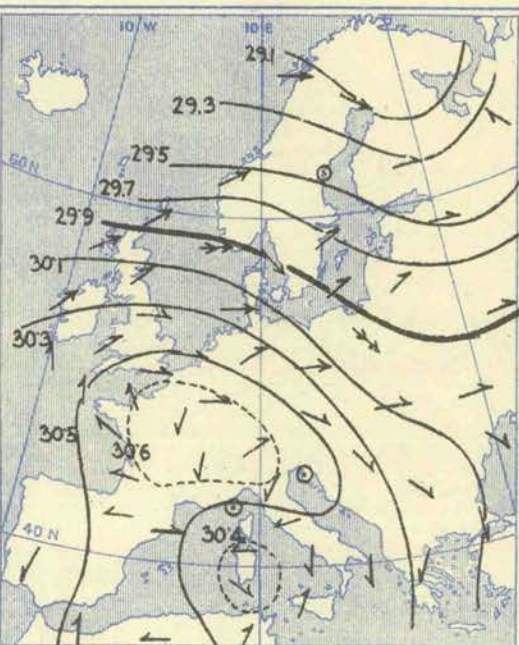
Temperature and Weather.

8 a.m.

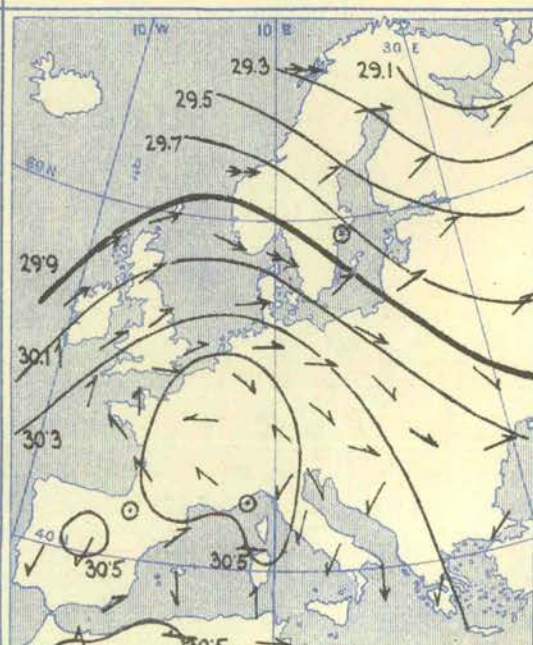


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of north-western and central Europe, with rain at some of the Irish stations, and also at Christiansund, Cracow, and Lemberg. Fine over Sweden and the greater part of France and southern Europe; cloudy at most of the Russian stations, with snow at Archangel and St. Petersburg. Rain falling later in the west and extreme north of our Islands generally, and also in the west of Norway.

Temperature fallen over western Europe—briskly at many of the French stations. Morning readings highest, 54° at Brindisi, 53° at Algiers, and 50° at La Calle, Tunis, and Sfax; above 45° at most of our own western and northern stations. Lowest, 1° at Archangel, 24° at Moscow, and 25° at Uleaborg; below the freezing point over Russia and the north of Sweden generally. Remaining below 45° all day over eastern and central England, but rising to 50°, or slightly above it, on several parts of our western and northern coasts; exceeding 60° over the greater part of southern Europe, and reaching 61° at Palermo.

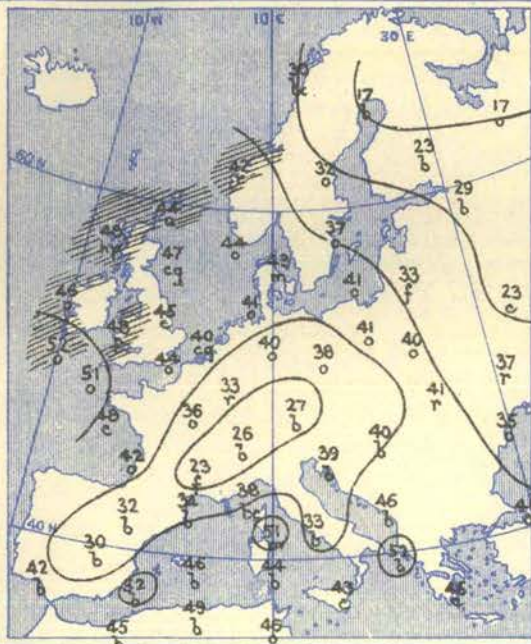
Wind moderate to fresh from the Southward on our south-west coasts, and light from the South-Westward in most other parts of the United Kingdom. Westerly or North-Westerly over northern and central Europe generally, and strong to a gale in force on the eastern shores of the North Sea, but moderate from the South-Westward in the south of Sweden. Light Northerly breezes reported over central France, and Easterly or South-Easterly breezes in the west of that country; Northerly or North-Easterly winds prevailing in most parts of southern Europe; no important change occurring during day.

Barometer highest, 30.6 ins. and upwards over western Germany, and northern and central France; 30.3 ins. and upwards in an anticyclone covering Ireland, England, France, Germany, Austria, and the whole of southern Europe. Lowest, 29.1 ins. and less in a cyclonic disturbance with its centre over the extreme north of Scandinavia. Depression subsequently moving eastwards, but new low pressure system approaching our own western coasts in evening.

Thursday, 9th January.

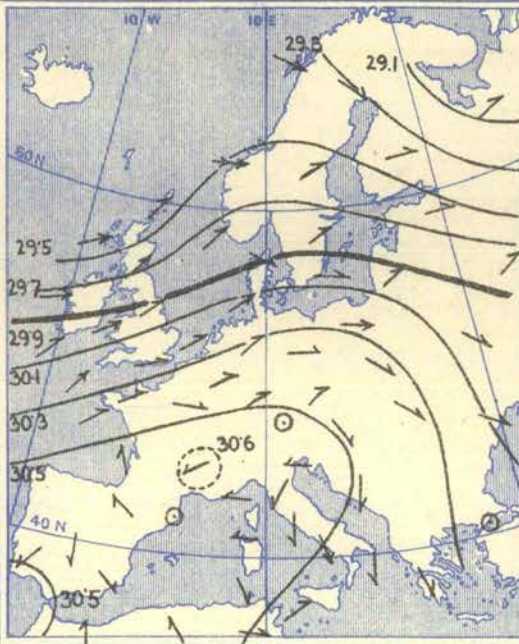
Temperature and Weather.

8 a.m.

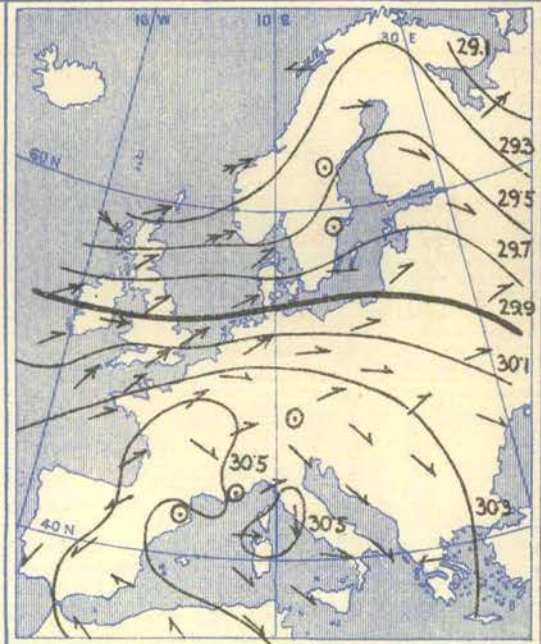


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western, northern, and central Europe generally, with passing showers in Ireland, and steady rain in the north-west of England, as well as at Brussels and Christiansund. Fair or fine on the east coasts of Great Britain, and a-10 over the whole of southern Europe. Rain falling later over the greater part of the United Kingdom, and also in Scandinavia, Denmark, north Germany, and the north-west of France.

Temperature risen in our Islands and France, as well as at most of the Swedish stations, fallen elsewhere. Morning readings highest (1) 58° at Brindisi and Alicante, and 51° at Sanguinaire; (2) 52° at Valencia, and 51° at Scilly; touching 50° in some parts of Scotland, and above 45° in the west and north of our Islands generally. Rising during day to 50°, or slightly above it, in most parts of the United Kingdom, and also in the north of France; exceeding 55° over southern Europe generally, and reaching 61° at Palermo and San Fernando.

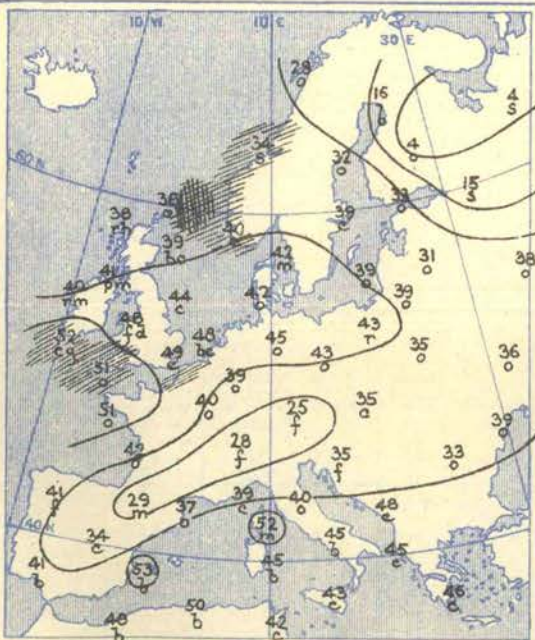
Wind South-Westerly over western and northern Europe generally, and fresh or strong in force on several parts of our own western coasts; strong to a gale from the Westward on the west coasts of Norway. Light from the Eastward in the south of France, and from the North-Eastward over the Spanish Peninsula; Northerly or North-Westerly over Italy and the Adriatic. Subsequently increasing to a gale from the Westward on our own extreme north and north-west coasts; no decided change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards at some stations in the central parts of France and Spain; 30.3 ins. and upwards in an anticyclone covering the whole of central and southern Europe. Lowest, 29.1 ins. and less in a cyclonic system with its centre over the White Sea; 29.4 ins. and less in another disturbance lying off the north-west of Scotland; gradients steep over the northern parts of our Islands and the North Sea.

Friday, 10th January.

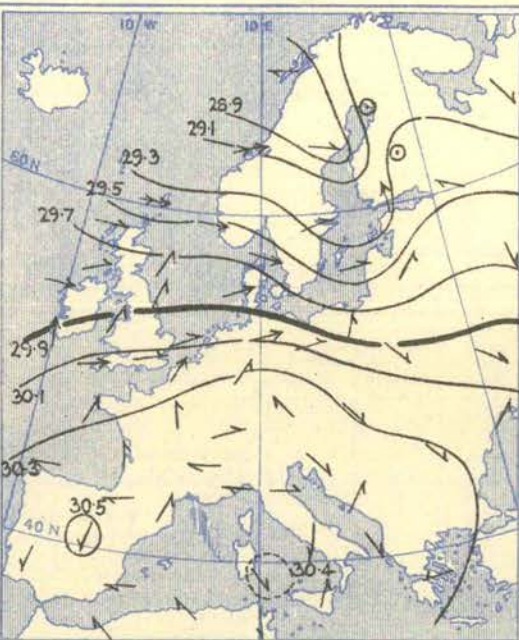
Temperature and Weather.

8 a.m.

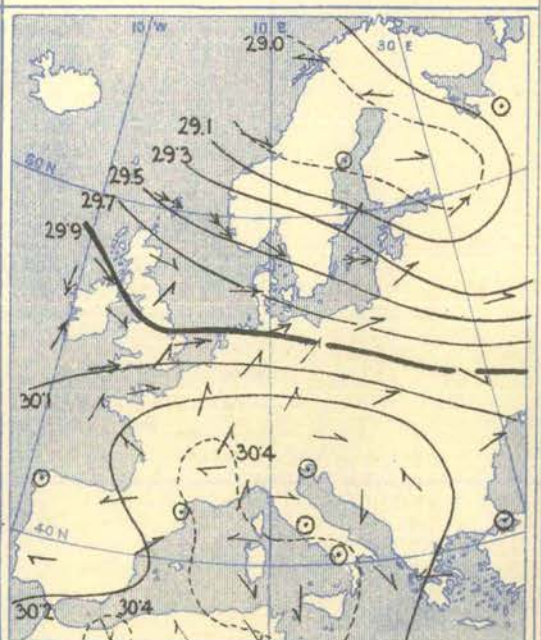


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine on the east coasts of Great Britain, as well as in Spain, Italy, and Greece. Cloudy or dull elsewhere, with rain in Ireland and the north-west of England, and hail showers in the north of Scotland; rain falling also at Swinemunde and Neufahrwasser, and snow at Christiansund, and in many parts of northern Russia. Fog reported over south Germany and central France. Rain falling later over nearly the whole of north-western Europe, and snow showers in the north of Scotland.

Temperature fallen in the northern parts of our Islands and the Continent, and also in Italy, but risen elsewhere. Morning readings highest (1) 53° at Alicante, and 50° at Algiers; (2) 52° at Valencia (Ireland), and 51° at Scilly and Jersey; above 45° over the southern parts of the United Kingdom generally. Lowest, 4° at Archangel and Kuopio, 6° at Uleaborg, and 15° at St. Petersburg; lowest in our Islands, 36° at Wick. Daily maxima below 40° in the north of Scotland, but above 50° over England, the south of Ireland, and the north of France. Thermometer exceeding 55° over the Spanish Peninsula and southern Italy, and reaching 63° at San Fernando and Oporto.

Wind Westerly or South-Westerly over our Islands, and the northern parts of the Continent generally; moderate or fresh in force in most places, but strong on the eastern shores of the North Sea, and blowing a gale at Sumburgh Head and Christiansund. North-Westerly in Austria and the south of Russia; Northerly in Spain and Italy; variable in the south of France. Subsequently veering to the North-Westward on our own extreme north and north-west coasts; no important change occurring elsewhere.

Barometer highest, 30.5 ins. and upwards over central Spain; 30.0 ins. and upwards in an anticyclone covering the whole of central and southern Europe, with the southern parts of the United Kingdom. Lowest, 29.0 ins. and less in a cyclonic system with its centre over the north of Scandinavia; gradients steep over the Baltic, the south of Scandinavia, and the adjacent parts of the North Sea. Depression subsequently spreading eastwards over northern Russia; barometer rising on our own extreme north and north-west coasts.

Saturday, 11th January.

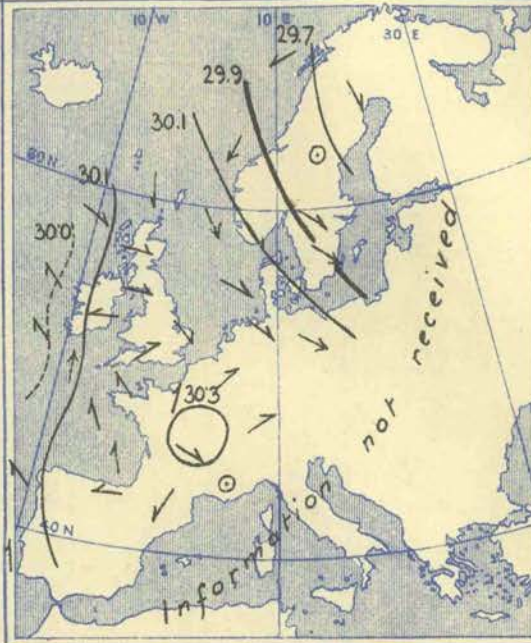
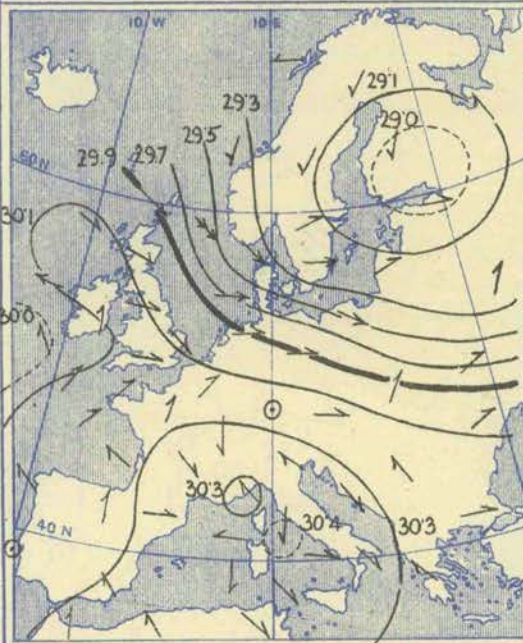
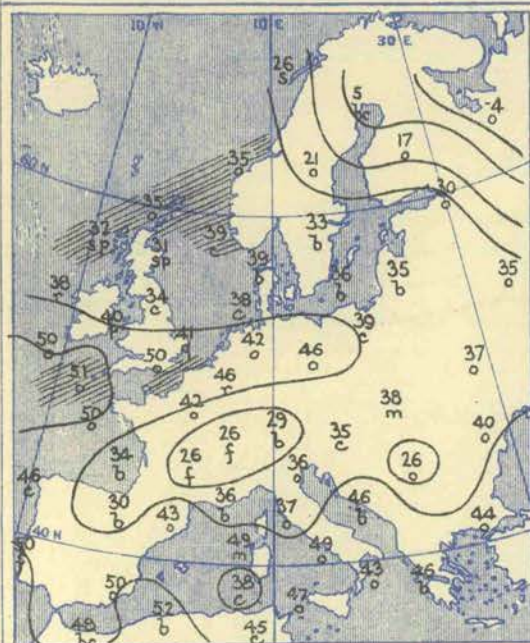
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine at several of the Scotch stations, and also in Sweden, Denmark, and the southern parts of France and Germany. Cloudy or dull elsewhere, with rain in several parts of England and Ireland, as well as at Brussels; snow showers reported in the north of Scotland, and a more decided fall at Christiansund. Rain falling later over nearly the whole of north-western Europe.

Temperature fallen in all the more northern parts of our Islands and the Continent, as well as in central France, but risen elsewhere. Morning readings highest (1) 52° at Algiers, and 50° at Lisbon and Alicante; (2) 51° at Scilly, and 50° at several other of our own southern stations. Lowest, - 4° Fahr. at Archangel, - 5° at Haparanda, and 10° at Uleaborg; below the freezing point over the northern parts of Russia and Scandinavia generally, as well as in central France and the east of Scotland. Remaining below 40° all day in Scotland and the north of England, but rising slightly above 50° at several of our southern stations. Exceeding 50° also in the west and south of France, and reaching 61° at Corunna.

Wind light from the Westward or North-Westward on the north and east coasts of Great Britain, and strong to a gale from the same quarters in Denmark and the south of Scandinavia. South-Easterly or Southerly over the Bay of Biscay and our own extreme south-west coasts; light from the Westward in Italy and the south of France; no important change occurring during day.

Barometer highest, 30.3 ins. and upwards in an anticyclone lying over France, Italy, and the western parts of the Mediterranean; 30.1 ins. and upwards in a ridge extending northwards over a considerable portion of the United Kingdom. Lowest, 29.0 ins. and less in a cyclonic area with its centre over Finland. Cyclonic system subsequently moving away to the eastward, and barometer rising briskly in Scandinavia.

GENERAL NOTES.

Early in the week a large anticyclone lay over the south-western parts of our Islands and the Continent, the highest barometer readings being observed over the Bay of Biscay and the adjacent portions of the Atlantic. Under the influence of this system the weather over England, France, and southern Europe was mostly fair and dry, with high temperatures in the south of our Islands, but with lower temperatures over the central parts of France and Spain, and northern Italy. In all the more northern parts of Europe the conditions were influenced by two cyclonic disturbances of considerable size and depth, the centres of which moved eastwards across the north of Scandinavia. The first of these travelled along on the 5th, and was attended by secondary disturbances which occasioned Westerly gales, not only in Scandinavia and Denmark, but also on our own north and east coasts. The second moved in a more northerly track on the 7th, and produced further gales over northern Europe as well as in the north of Scotland.

The anticyclone now moved slowly eastwards and gradually diminished in intensity, while the wind in our Islands backed to the South-West. And, with an extension of unsettled, rainy weather to all districts, the actual amount of precipitation being, however, in most cases small. On the 9th another large cyclonic system skirted our own northern coasts, and afterwards moved across Scandinavia, its progress being attended by South-Westerly to Westerly or North-Westerly gales over the north of Scotland and the North Sea. In the rear of this disturbance a ridge of high pressure was formed over the United Kingdom, and light winds set in from the North-Westwards in the east and from East or South-East in the west, with finer weather and a decided fall of temperature in all the northern districts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 8.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	3.3	- 2.5	8	- 5	BRIGHTON	10.0	- 1.1	18	- 2
STRATHPEFFER SPA	2.6	- 4.4	6	- 9	WORTHING	8.8	—	16	—
EDINBURGH	5.8	- 0.7	12	- 1	BOGNOR	11.2*	—	20*	—
MORPETH	8.7	—	17	—	WATERGATE (Emsworth)	8.6	—	15	—
NEWCASTLE-ON-TYNE	4.5	—	9	—	WESTBOURNE (Emsworth)	11.0*	- 1.3	20*	- 1
OSWALDKIRK (Yorkshire)	—	—	—	—	VENTNOR HOSPITAL	8.2	- 3.1	15	- 4
YORK	—	—	—	—	BOURNEMOUTH	18.2	—	83	—
LOWESTOFT	3.0	—	6	—	SOUTHPORT	4.4	—	8	—
HOLLESLEY BAY	9.0	—	17	—	RHYL	9.0*	—	17*	—
SHEFFIELD	7.4	—	14	—	COLWYN BAY	—	—	—	—
WORKSOP	5.5	- 2.2	10	- 4	ABERDOVEY	2.1	—	4*	—
THURCASTON (Leicestershire)	4.5	- 3.8	8	- 8	TENBY	6.8	- 5.8	13	- 9
MARGATE	7.6	- 3.8	12	- 6	NEWQUAY	—	—	—	—
BROADSTAIRS	10.0	—	18	—	TORQUAY	4.9	- 7.9	9	- 13
EASTBOURNE	9.3	- 2.7	17	- 4	CAHIR (Dunstable)	3.8*	—	7*	—
					GUERNSEY	7.3*	- 3.8	13*	- 6

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 3.
Fourth Series.

WEEK ENDING SATURDAY, JANUARY 18TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 14.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	12	42.8	32.1	37.7	0 (average)	Day-deg. 2	Day-deg. - 4	Day-deg. 37	Day-deg. 0	Day-deg. 21	Day-deg. + 2	Day-deg. 79	Day-deg. - 27
	1. SCOTLAND, EAST	52	17	42.3	30.7	36.7	0 (average)	1	- 6	41	- 2	23	+ 6	82	- 43
	2. ENGLAND, N.E.	50	23	42.7	31.8	37.5	0 (average)	2	- 5	38	0	53*	+ 30	56	- 53
	3. ENGLAND, EAST	47	21	42.6	31.8	37.5	0 (average)	2	- 5	38	- 4	63	+ 39	51	- 70
	4. MIDLAND COUNTIES	50	19	42.3	30.1	36.4	1 below	1	- 8	43	- 1	59	+ 30	53	- 73
	5. ENGLAND, SOUTH	50	19	42.8	34.3	38.7	0 (average)	2	- 9	29	- 5	66	+ 29	31	- 65
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	21	42.8	32.5	37.8	2 below	2	- 8	35	+ 4	45	+ 13	39	- 48
	7. ENGLAND, N.W.	49	18	42.7	32.1	37.6	1 below	2	- 7	37	+ 6	49	+ 13	39	- 49
	8. ENGLAND, S.W.	52	19	43.6	33.8	38.9	2 below	4	- 11	31	+ 7	81	+ 32	31	- 36
	9. IRELAND, NORTH	49	25	43.6	34.0	39.0	1 below	4†	- 9	31	+ 4	48*	+ 8	38	- 39
	10. IRELAND, SOUTH	51	22	45.4	35.8	40.8	1 below	10†	- 10	25	+ 4	76	+ 13	25	- 36
	—CHANNEL ISLANDS.	50	33	47.6	40.9	44.4	0 (average)	21†	- 2	8	- 8	127	+ 52	3	- 25

DISTRICTS. (See p. 14.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 6	10ths of in. 7 less	19	+ 4	4.5	+ 0.3	4	- 2	8	- 4	9	- 7	6	- 6
	1. SCOTLAND, EAST	2	1	6 less	11	- 1	1.3	- 0.6	10	+ 1	19	+ 1	25	- 1	17	- 1
	2. ENGLAND, N.E.	1	1	4 less	8	- 3	1.0	- 0.3	3	- 7	5	- 13	20*	- 9	10	- 6
	3. ENGLAND, EAST	1	less than half	4 less	8	- 4	0.7	- 0.7	15	- 1	26	- 2	35	- 5	16	- 3
	4. MIDLAND COUNTIES	0	0	5 less	9	- 2	1.3	- 0.3	8	0	15	0	20	- 6	14	- 3
	5. ENGLAND, SOUTH	0	0	6 less	8	- 3	1.1	- 0.7	9	- 3	15	- 6	25	- 10	13	- 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	2	11 less	14	0	3.1	- 0.7	9	+ 1	18	+ 3	18	- 6	12	- 3
	7. ENGLAND, N.W.	1	less than half	7 less	12	0	1.8	- 0.4	12	+ 5	22	+ 10	24	- 1	15	- 1
	8. ENGLAND, S.W.	0	0	9 less	10	- 3	1.8	- 1.1	10	- 2	16	- 3	21*	- 15	12	- 9
	9. IRELAND, NORTH	2	1	7 less	14	- 0	2.1	- 0.1	12	+ 2	23	+ 4	20	- 9	13	- 5
	10. IRELAND, SOUTH	1	less than half	9 less	11	- 3	1.7	- 1.2	10	- 2	19	- 5	22	- 15	13	- 9
	—CHANNEL ISLANDS.	1	less than half	8 less	10	- 4	1.0	- 1.4	9	- 7	16	- 12	22	- 20	11	- 11

* This value has been altered owing to the receipt of further information.

† The corresponding values for these districts in last week's Report should read "17," "32" and "44" respectively.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week, although very cloudy and dull generally, was very dry over the country as a whole, but slight amounts of rain were rather common in some parts of Ireland.

Temperature has been subject to frequent and sudden changes, but the average for the week differs very little from the mean value. The highest of the maxima were recorded on rather variable dates, and ranged from 52° in Scotland E. and England S.W. to 47° in England E. The lowest of the minima were registered about the middle of the week, when they varied from 12° in Scotland N., 17° in Scotland E., and 18° or 19° over the greater part of England, to 25° in Ireland N. and to 23° in the Channel Islands.

Rainfall was much less than the mean in all districts. In many parts of England there was none.

Bright Sunshine was deficient over the Kingdom as a whole, but exceeded the mean amount in a few northern and western districts. The percentage of the possible duration ranged from 26 in England E., 23 in Ireland N. and 22 in England N.W. to 8 in Scotland N. and 5 in England N.E.

Barometer and Wind.—Soon after the commencement of the week an anticyclone approached our Islands from the northwestward, and we continued under the influence of this system throughout the period. By Wednesday morning it had reached the southern half of the United Kingdom and the north of France, and had increased greatly in height—at Oxford the barometer read 30.90 ins. By the following day it had moved to the Bay of Biscay, and increased still further in intensity, and after moving eastwards to France it gradually returned northward again, and became so reduced in height that at the end of the period the pressure near its centre was less than 30.4 ins. No cyclonic disturbance appeared over the United Kingdom during the week, but a very large and deep system passed eastwards across Scandinavia late on the 15th causing the westerly wind to increase greatly in strength on all our northern coasts and to blow a fresh or strong gale in some places.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N	Sumburgh Head	47	21	42.4	32.6	37.7	- 1.4	1	35	7	1.25	+ 0.38	*	*	*	*
	Stornoway	51	24	44.6	33.1	39.1	+ 0.4	7	42	6	0.50	- 0.60	4.8	- 1.7	10	- 3
	Wick	50	24	43.9	32.4	38.4	+ 0.8	5	37	5	0.33	- 0.19	*	*	*	*
	Lairg	48	19	42.5	29.9	36.5	+ 1.6	1	35	4	0.21	- 0.59	*	*	*	*
	Glencarron	48	14	41.1	30.5	36.0	- 1.2	0	42	7	1.02	- 1.22	*	*	*	*
	Fort Augustus	50	12	42.2	31.7	37.2	- 1.1	1	38	2	0.12	- 0.96	2.5	- 1.1	5	- 2
1. SCOTLAND, E.	Fort William	51	20	43.1	34.7	39.1	+ 0.4	3	28	5	0.54	- 1.59	3.9	- 1.5	8	- 3
	Nairn	52	21	44.3	32.0	38.4	+ 1.0	6	38	2	0.03	- 0.42	*	*	*	*
	Aberdeen	51	26	43.0	32.4	37.9	+ 0.4	8	36	4	0.13	- 0.40	11.2	- 0.4	22	- 1
	Braemar	48	17	38.8	29.6	34.4	+ 0.1	0	53	3	0.11	- 0.55	*	*	*	*
	Ochertyre	50	19	43.9	30.9	37.7	+ 0.9	5	42	1	0.01	- 1.15	*	*	*	*
	Leith	51	24	43.0	32.0	37.7	- 1.2	3	37	0	—	- 0.40	*	*	*	*
2. ENGLAND, N.E.	Marchmont	48	19	40.9	27.1	34.3	- 2.1	0	54	2	0.19	- 0.41	12.0	+ 2.8	23	+ 5
	Alnwick Castle	50	26	44.2	30.7	37.7	- 0.1	6	43	2	0.07	- 0.43	*	*	*	*
	Durham	49	24	41.1	30.2	35.9	- 1.0	0	43	2	0.06	- 0.38	3.0	- 7.3	6	- 13
	Shields	50	27	42.3	33.0	37.8	- 0.7	1	33	2	0.16	- 0.24	*	*	*	*
	Scarborough	50	27	43.3	33.0	38.4	0.0	4	34	1	0.04	- 0.41	0.0	—	0	—
	Spurn Head	47	31	42.9	34.7	39.0	+ 0.7	3	28	1	0.06	- 0.25	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	47	23	42.4	29.4	36.2	0.0	1	46	0	—	- 0.33	*	*	*	*
	Hillington	47	23	42.2	30.7	36.7	- 0.1	1	41	4	0.11	- 0.35	6.2	- 4.1	11	- 7
	Yarmouth	46	27	42.3	32.7	37.7	+ 0.3	1	34	2	0.07	- 0.37	*	*	*	*
	Geldeston	47	25	43.6	32.5	38.3	+ 0.5	4	36	1	0.04	- 0.33	10.4	- 1.3	19	- 2
	Cambridge	47	21	43.9	30.7	37.6	+ 0.1	5	43	0	—	- 0.34	9.8	- 1.2	13	- 1
	Felixstowe	44	27	41.9	33.7	38.0	- 0.4	0	28	0	—	—	24.1†	—	43†	—
4. MIDLAND COUNTIES	Rothamsted	47	21	41.7	30.6	36.4	- 0.6	0	39	1	0.01	- 0.53	11.5	+ 1.2	21	+ 3
	Bawtry (Hesley Hall)	50	25	43.7	30.0	37.1	- 0.3	5	45	0	—	- 0.40	*	*	*	*
	Loughborough	49	20	43.1	28.6	36.1	- 1.5	3	49	0	—	- 0.45	*	*	*	*
	Coll Weston (Stamford)	48	23	42.7	29.9	36.6	- 0.4	2	45	0	—	—	*	*	*	*
	Cheadle	47	25	41.0	30.6	36.0	- 0.6	0	42	0	—	- 0.60	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	47	25	41.3	32.5	37.1	- 0.8	0	34	0	—	- 0.49	0.1	—	0	—
5. ENGLAND, S	Churchstoke	48	20	41.5	29.2	35.6	- 2.0	0	45	0	—	- 0.63	14.5	+ 4.0	26	+ 7
	Hereford	47	20	41.0	29.3	35.7	- 2.7	0	44	0	—	- 0.56	*	*	*	*
	Gloucester	47	19	43.0	29.7	36.6	- 1.0	3	46	0	—	- 0.64	7.7	- 2.9	14	- 5
	Oxford	48	23	42.9	31.1	37.2	- 1.1	3	40	0	—	- 0.46	10.6	+ 0.2	19	0
	London	49	24	43.1	35.7	38.6	- 0.2	3	31	0	—	- 0.43	2.4†	- 3.2†	4†	- 6†
	Swarraton (Alresford)	48	19	41.3	30.7	36.2	- 1.3	0	41	1	0.03	- 0.67	*	*	*	*
6. SCOTLAND, W.	Dungeness	48	26	43.3	34.9	39.3	0.0	4	27	0	—	- 0.42	7.5	—	13	—
	Hastings (St. Leonards)	49	31	43.2	35.9	39.7	+ 0.2	3	23	0	0.01	- 0.61	9.2	- 4.2	16	- 7
	Southampton	50	25	43.8	33.7	39.0	- 0.8	5	32	0	—	- 0.69	7.9	- 3.4	14	- 5
	Portland Bill	48	31	44.0	38.3	41.3	- 0.1	6	15	0	—	—	*	*	*	*
	Shaftesbury	49	25	40.7	33.0	37.0	- 0.5	0	35	0	—	- 0.67	*	*	*	*
	Laudale (Loch Sunart)	51	24	43.6	33.9	38.9	- 1.0	4	31	5	0.41	- 1.44	*	*	*	*
7. ENGLAND, N.W.	Glasgow	49	21	41.0	31.9	36.6	- 1.8	0	38	0	—	- 0.35	1.6	- 3.7	3	- 7
	Glenlee	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Douglas (Isle of Man)	48	25	43.7	31.6	37.9	- 2.7	5	39	1	0.03	- 0.94	17.1	+ 5.3	32	+ 12
	Newton Reigny	47	19	40.9	27.4	34.4	- 1.2	0	53	1	0.02	—	10.1	—	19	—
	Stonyhurst	46	24	40.8	31.5	36.3	- 1.4	0	40	0	—	- 0.93	12.2	+ 4.6	23	+ 9
	Blackpool	46	22	43.8	31.5	37.9	- 0.5	5	40	2	0.04	- 0.62	16.0	+ 7.3	30	+ 15
8. ENGLAND, S.W.	Manchester (Prestwich)	48	24	42.0	30.5	36.5	- 1.4	0	39	1	0.02	- 0.69	5.7	—	11	—
	Liverpool Obs. (Bidston)	47	28	42.0	33.3	37.8	- 1.6	0	29	1	0.03	- 0.48	6.9	—	13	—
	Chester	49	24	43.7	32.3	38.2	- 1.5	5	37	0	—	—	*	*	*	*
	Llandudno	48	27	44.9	34.7	40.0	- 1.4	8	29	1	0.03	- 0.60	13.0	+ 2.5	24	+ 5
	Holyhead	47	30	43.7	35.6	39.8	- 2.2	5	25	0	—	- 0.74	*	*	*	*
	Llandovery	48	19	41.7	30.3	36.2	- 1.7	0	41	1	0.01	- 1.14	*	*	*	*
9. IRELAND, N.	Pembroke	49	31	45.0	36.4	40.9	- 1.6	8	23	0	—	- 0.34	13.9	+ 1.9	25	+ 4
	Clifton	48	25	42.3	33.0	37.8	- 1.8	1	33	0	—	- 0.76	*	*	*	*
	Bath	50	21	43.0	32.4	37.9	- 2.0	3	36	0	—	—	6.3	—	11	—
	Arlington (N. Devon)	48	24	42.6	31.4	37.2	- 2.3	2	39	0	—	- 1.03	*	*	*	*
	Cullompton	49	21	43.2	30.8	37.3	- 2.5	3	42	0	0.01	- 0.75	3.6	- 6.2	6	- 11
	Falmouth	48	32	45.7	39.2	42.6	- 0.8	16	8	1	0.04	- 1.12	8.0	- 4.8	14	- 7
10. IRELAND, S.	Plymouth	52	29	45.4	36.8	41.3	- 0.6	10	22	0	—	- 0.87	8.0	- 3.4	13	- 6
	Malin Head	49	30	44.9	36.0	40.6	- 0.8	8	24	3	0.08	—	*	*	*	*
	Edenfel (Omagh)	47	25	41.4	30.3	36.1	- 1.6	0	41	2	0.07	- 0.70	*	*	*	*
	Blacksod Point	49	34	46.4	39.7	43.2	+ 0.5	18	6	3	0.16	—	*	*	*	*
	Markree Castle	49	26	42.4	32.0	37.4	- 2.1	1	37	1	0.03	- 0.31	10.1	+ 0.4	19	+ 1
	Armagh	47	26	42.3	31.7	37.2	- 1.6	1	38	0	—	- 0.62	14.0	+ 3.6	26	+ 7
CHANNEL ISLANDS	Donaghadee	49	29	43.9	34.1	39.3	- 1.2	5	29	1	0.01	- 0.62	*	*	*	*
	Dublin	49	29	44.3	34.9	40.1	- 1.5	8	29	1	0.03	- 0.47	10.5	- 2.3	19	- 5
	Parsonstown	47	27	42.9	30.7	37.0	- 2.7	3	42	1	0.01	- 0.65	8.8	- 2.9	16	- 5
	Kilkenny	48	22	44.1	29.9	37.3	- 3.6	6	46	1	0.04	- 0.71	*	*	*	*
	Roche's Point	50	32	47.0	39.7	43.5	0.0	20	6	0	—	- 1.16	*	*	*	*
	Valencia	51	36	48.4	43.7	46.1	+ 1.5	29	0	1	0.03	- 1.34	9.1	- 3.0	16	- 5
CHANNEL ISLANDS	Killarney	?	33	?	38.6	?	?	?	?	1	0.03	- 1.37	*	*	*	*
	Foynes	49	30	45.0	35.6	40.5	- 0.9	8	26	3	0.16	- 0.65	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	50	42	49.3	43.4	46.5	+ 0.7	32	0	0	—	- 0.32	17.2	—	29	—
	Jersey	49	33	45.9	38.3	42.3	- 0.1	18	10	1	0.01	- 0.70	6.4	- 8.3	11	- 14

* Stations marked $\mathfrak{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathfrak{S}$ with the Scottish Meteorological Society.

† The Sunshine is inserted in all places for which the information is not usually received.

‡ The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

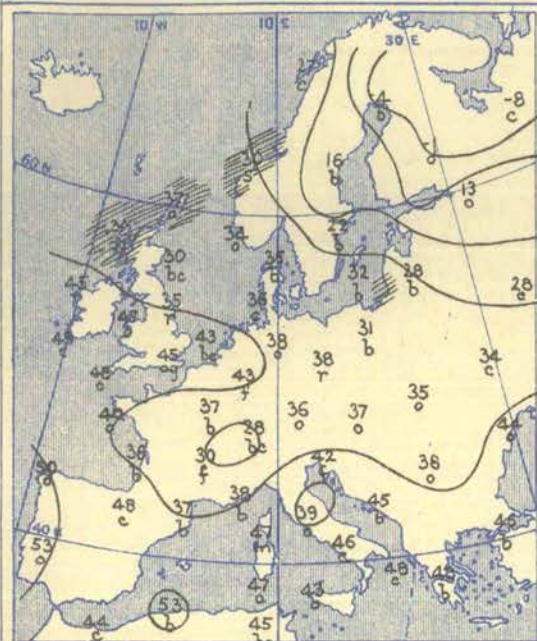
§ Chiefly wet mist or dew.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 12th January.

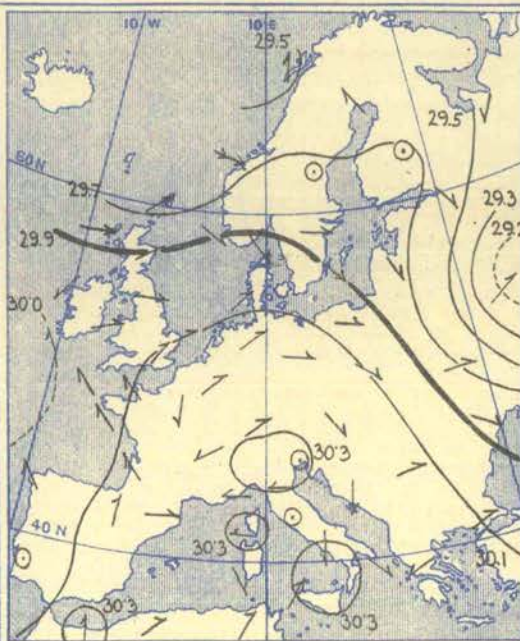
Temperature and Weather.

8 a.m.

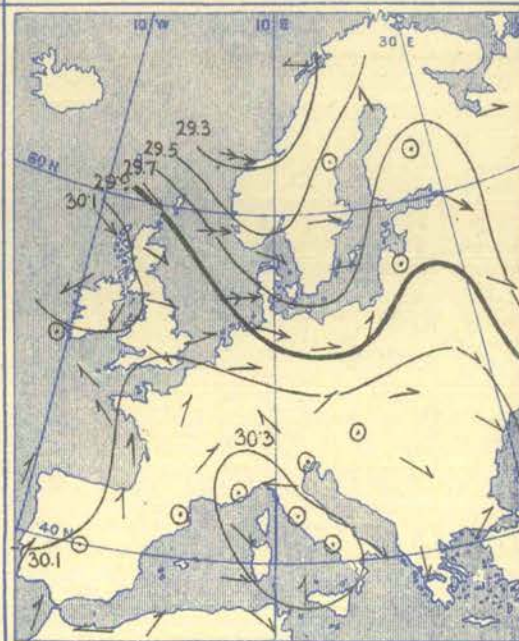


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright at some of our own northern stations, in Sweden, and Algeria, cloudy or dull in other regions. Rain falling at Shields and Berlin, and snow at Christiansund and St. Petersburg. Rain later in the north of our Islands, the Netherlands, and north Germany, and also at some southern French stations.

Temperature at 8 a.m. highest, 58° or 59° on the north coast of Spain, and also at San Fernando, 56° at Oran, and 54° at Leghorn, highest in the United Kingdom, 47° at Valencia and Sicily. Lowest, - 5° at St. Petersburg, 0° (zero) at Haparanda, + 1° at Kuopio, and much below the freezing point over the north and east of Russia and Scandinavia generally; 30° at Paris, 31° at Wick and Sumburgh Head. Rising during day to 50° in the south of Ireland, to about 53° or 54° in the Riviera and southern Italy, to 60° at Palermo, and to 68° at Algiers.

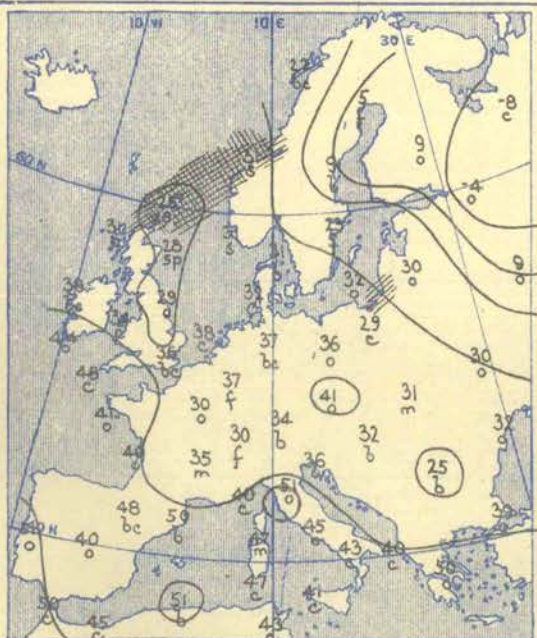
Wind in morning light and variable over France and the south of our Islands; South-Westerly to North-Westerly over our more northern districts, and Westerly, strong to a gale, in the west of Norway; Southerly in the Spanish Peninsula. Light or moderate from West and North-West in most parts of Russia, and calm or light and variable over the Mediterranean. North-Westerly winds extending over our Islands later, and increasing in force, and Westerly gale springing up on Danish coast.

Barometer at 8 a.m. highest, 30.2 ins. and upwards in a large area embracing the west of Spain, the greater portion of France and Germany, the west of Austria, Italy, the Adriatic, part of Greece, the Mediterranean, and Algeria. Lowest, 29.2 ins. and less in the neighbourhood of Moscow, and 29.5 ins. and less near Bodø. Barometer rising quickly during day over central Russia, and falling briskly in Norway and Denmark; not much change elsewhere.

Monday, 13th January.

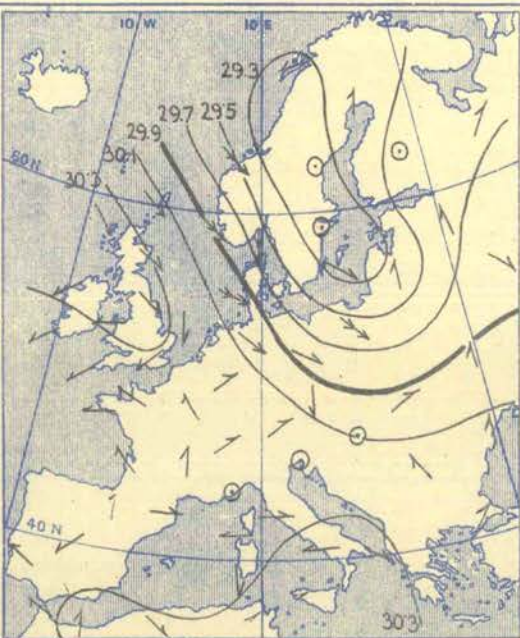
Temperature and Weather.

8 a.m.

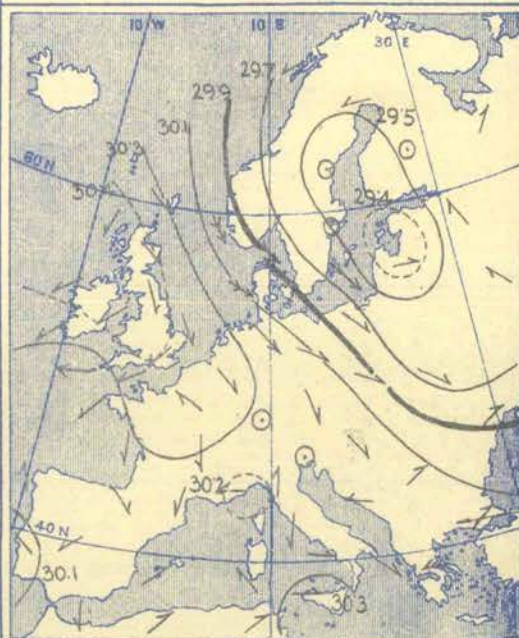


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in a few parts of the United Kingdom and Scandinavia, and at one or two stations in central and southern Europe, cloudy or dull elsewhere. Rainy at Cape Sicié, and snow falling at Sumburgh Head, and in the west of Norway. Snow experienced at some of our own northern stations during day, and also in some northern parts of the Continent. Considerable fall of rain at Leghorn, and a smaller amount at Lésina.

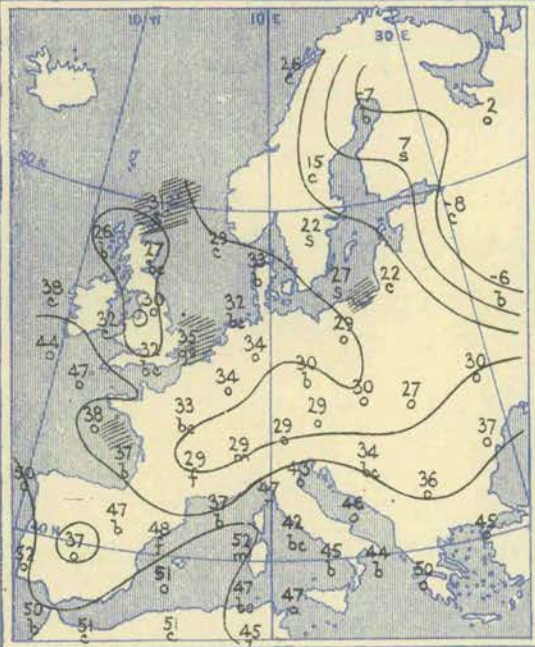
Temperature at 8 a.m. highest, 51° at Leghorn, Lisbon, and Algiers, and 50° at San Fernando and Barcelona. Lowest - 8° at Archangel - 4° at St. Petersburg, and below 20° over the northern parts of Sweden and Russia generally; 25° at Hermanstadt, and 30° at Paris, Belfort, and Turin. Lowest over our Islands, 20° at Newton Reigny, 27° at Loughborough, and 30° at Parsonstown. Subsequently rising to several degrees above 50° in the Riviera, to 59° at Biarritz, and above 60° on the Algerian coast. Remaining below 32° over northern Europe, and not touching 40° in some parts of northern France; scarcely exceeding the freezing point in north Britain.

Wind in morning North-Westerly or Northerly on our east coasts, and to the eastward of the North Sea, and over the Baltic, and North-Easterly on our southern coasts, and in the north of France. Westerly or South-Westerly over central Europe, and drawing into South or South-East over the north of Russia and Finland; variable over southern Europe. Moderate or light in force in most regions, but strong to a gale on the Norwegian, Danish, and north German coasts; no change of importance during day.

Barometer fallen briskly in Sweden, and risen briskly over the United Kingdom. Morning readings highest, 30.3 ins. and upwards in an anticyclone lying over the greater part of our Islands, and also in another area over the Mediterranean and Italy. Lowest, 29.3 ins. and less in a cyclonic system found over Sweden and the north of Norway. Anticyclonic area spreading eastwards and southwards during day and increasing in intensity, and Swedish disturbance moving eastwards and commencing to fill up. High pressure area in the south giving way somewhat.

Temperature and Weather.

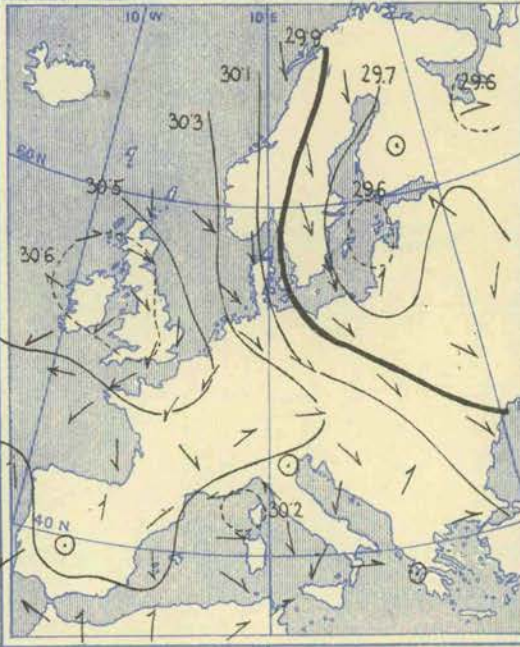
8 a.m.



Temperature fallen over our Islands and Europe as a whole—especially over the central countries and the neighbourhood of Moscow. Morning readings highest, 66° at Oporto, and about 50° over the southern parts of the Mediterranean; 47° at Scilly. Lowest, 5° at St. Petersburg and Moscow; 10° at Madrid, and below the freezing point over northern and central Europe generally, as well as in most parts of Great Britain. Rising during ensuing twenty-four hours to 45° or above at our northern and western stations, to 60° at Perpignan, and to 64° in the west of Algeria. Remaining below 32° over northern and some parts of central Europe.

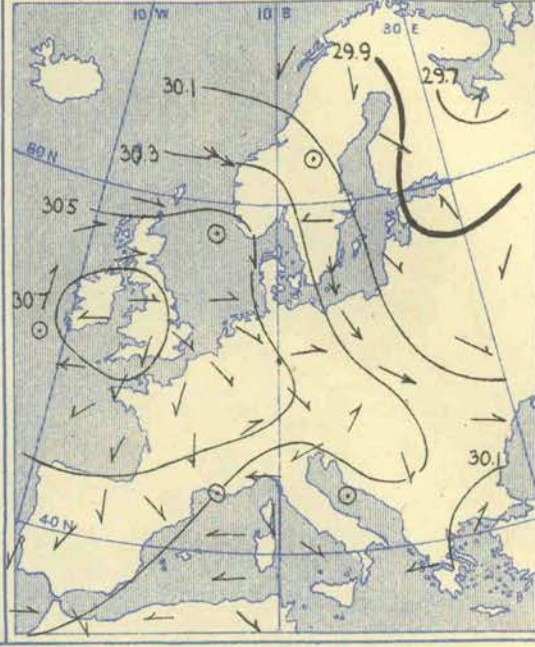
Barometer and Wind.

8 a.m.



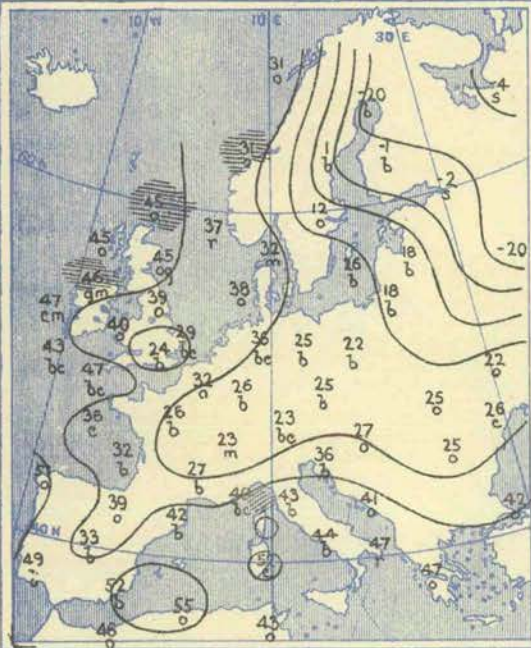
Barometer fallen over southern and south-eastern Europe, risen elsewhere—quickly over Scandinavia. Readings at 8 a.m. highest, 30.6 ins. and upwards in an anticyclone embracing the greater part of our Islands. Lowest, 29.6 ins. and less in a baric minimum over the south of Finland and Gulf of Riga, and also in a similar system near Archangel; 29.7 ins. and less in the neighbourhood of Kharkov. High pressure area moving slowly southwards during day and increasing in height. *Barometer* beginning to fall on our extreme northern coast. Russian cyclonic systems partially dispersing.

6 p.m.



Temperature and Weather.

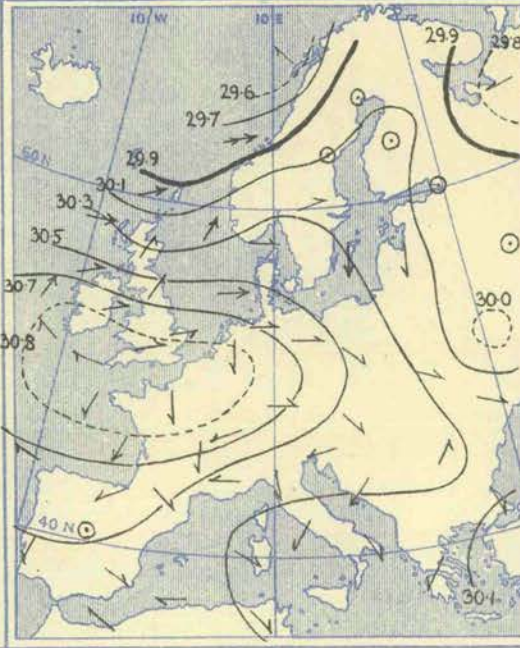
8 a.m.



Temperature rises very quickly over Scotland, and the northern districts of England and Ireland, fallen in most Continental countries, and on our own southern coast. Morning readings highest, (1) 54° at Alicante, 52° at Palermo, and 51° at Corunna; (2) 47° in Greece, and at Scilly and Blacksod. Lowest—20° at Haparanda and Moscow, and below zero over Finland, northern and central Russia generally. Below the freezing point over the greater part of England, France, and the central European countries: 39° at Madrid. Rising during day to 50° in Scotland, at Scilly, and Valencia, to between 50° and 55° in the Riviera, and to 60°, or a little above, in Algeria.

Barometer and Wind.

8 a.m.



Readings at 3 a.m. highest, 30.90 ins. at Oxford, and above 30.8 ins. in an anticyclone lying over the south of Ireland, the greater part of England, Belgium, and the northern half of France. Lowest, 29.6 ins. and less off the north-west of Norway. Anticyclone moving slowly southward later, and still further increasing in height, and a large and very deep cyclonic disturbance moving eastwards across Scandinavia.

6 p.m.

Thursday, 16th January.

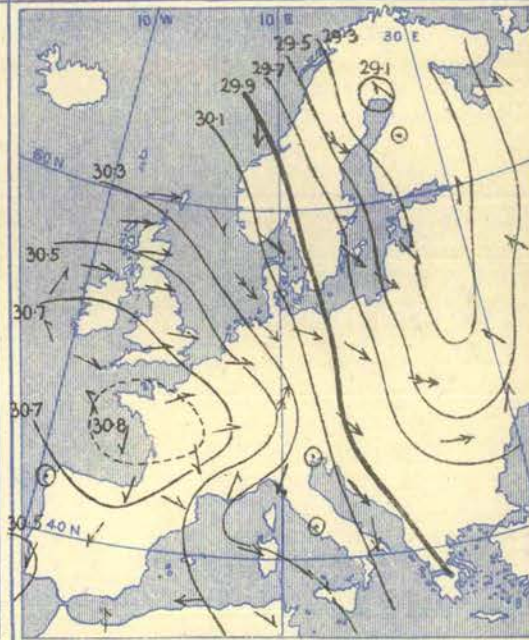
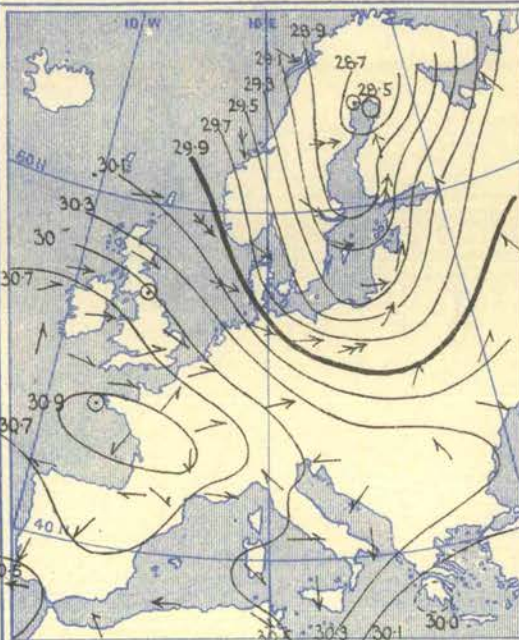
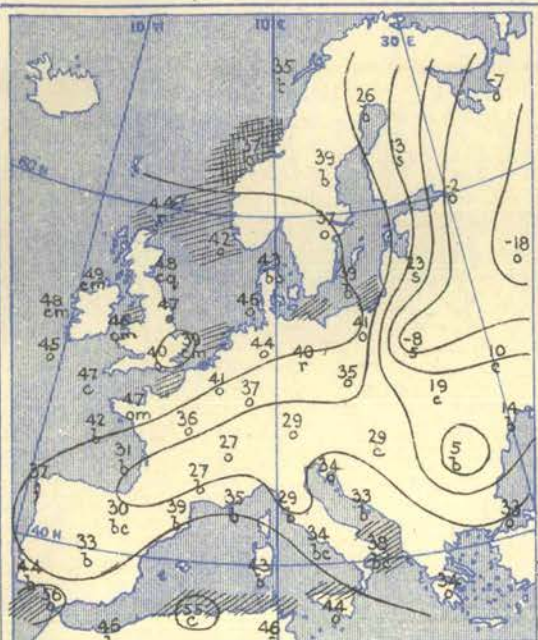
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in many parts of southern Europe, and also at a few Swedish stations, cloudy or dull in other regions. Rain falling at Sumburgh Head, Berlin, and Memel, and snow at Riga and in Finland. Snow occurring later in many parts of Russia, Germany, and Austria-Hungary.

Temperature risen with unusual rapidity in Sweden and Finland, the change in the twenty-four hours being as much as 46° at Haparanda, and 38° at Hernösand. Fallen quickly in Italy. Readings at 8 a.m. highest, 56° at San Fernando, and 55° at Algiers. About 49° at some of our own northern and north-western stations. Lowest—18° at Moscow—7° at Archangel, and—2° at St. Petersburg; below 32° over the whole of Russia, most parts of Austria, and central France, and as low as 28° at Pesaro, and 29° at Florence. Rising to about 50° on our northern coasts during day, to between 50° and 57° at some Italian and southern French stations, and to 63° at Nemours. Falling decidedly in Greece; 6 p.m. reading at Athens only 32°.

Wind in morning cyclonic over northern Europe, and also in the south-eastern countries, and the south-west of Spain, but anticyclonic over France, the Bay of Biscay and the north of Spain. Former current strong from West on some parts of our coasts, and strong to a gale from the North-Westward, Westward, and South-Westward over Scandinavia, Denmark, Germany, Austria, the Baltic, and Finland. Fresh or strong Northerly winds prevailing in Italy and Greece, and an Easterly gale at San Fernando; no important change occurring during day.

Barometer fallen very rapidly over northern Europe—as much as 1.59 ins. at Uleaborg—risen in the south. Readings at 8 a.m. highest, 30.9 ins. to 30.92 ins. in an anti-cyclone over the Bay of Biscay, western and central France. Lowest, 28.5 ins. and less in a cyclonic system lying near Uleaborg, and below 29.0 ins. over Finland and the north of Scandinavia generally; below 30.0 ins. in a disturbance over Greece. Cyclonic system in north remaining stationary all day, but filling up rapidly; minimum readings of barometer in evening about half an inch higher than in morning; anticyclone also diminishing in intensity.

Friday, 17th January.

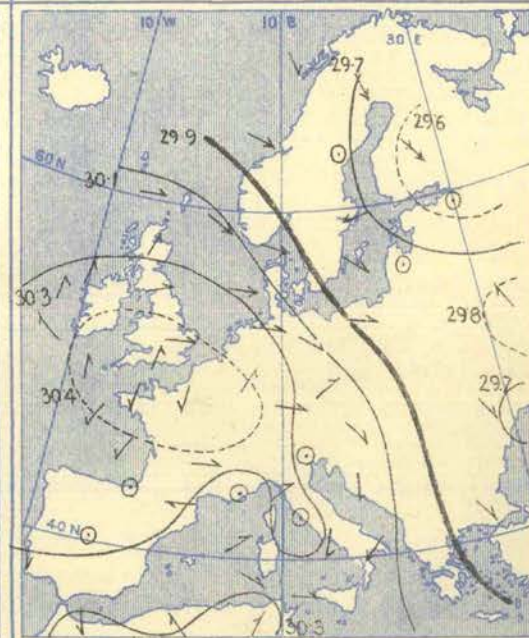
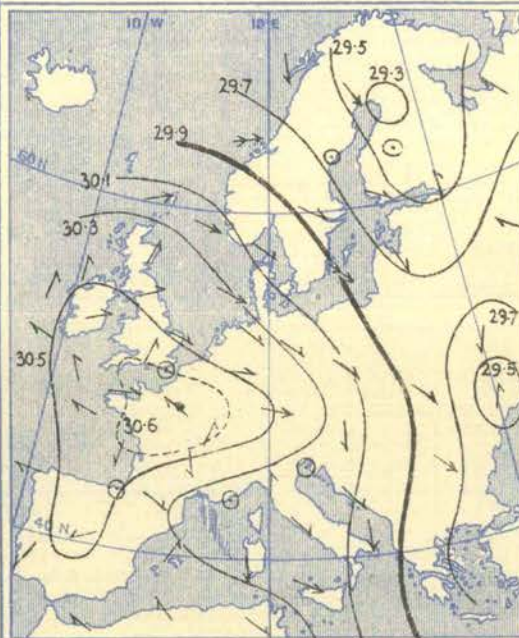
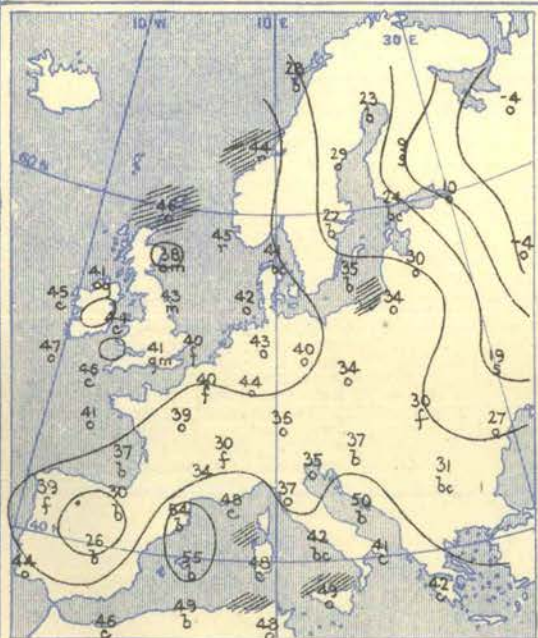
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in parts of Sweden, Finland, and southern Europe, cloudy or dull elsewhere, with rain in the west of Norway, and snow at Kuopio and Kiev. Fog prevailing at some of our own stations, and at Corunna. Heavy rain at Christiansund during day, and some falls of snow in different parts of Russia and central Europe.

Temperature fallen in most parts of our Islands and Sweden, risen decidedly over Europe as a whole. Readings at 8 a.m. highest, 55° at Palma, and 52° at Barcelona. Lowest (1) — 4° at Moscow and Archangel, + 9° at Kuopio, and 10° at Kharkov; (2) 33° at Parsonstown; (3) 38° at Madrid, and 50° at Biarritz. Remaining much below freezing point in Russia, but rising to 50°, or a little less, on our own south-western coasts, to 55° at Nice, 61° at Palermo, and to 65° at Nemours.

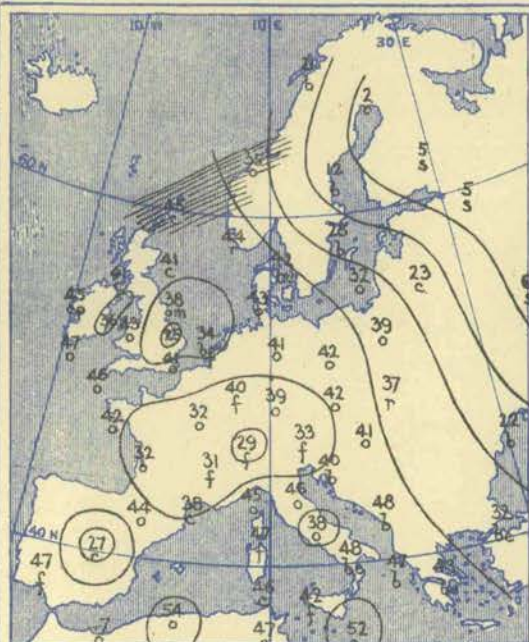
Wind in morning light and anticyclonic in western Europe; strong to a gale from West or North-West over Scandinavia, and light from North-West over central Europe; light from South and South-East over northern Russia. Cyclonic circulation of moderate winds over southern Russia, and also over the western part of the Mediterranean. Cyclonic movements becoming less marked towards evening, and wind subsiding greatly in Scandinavia.

Barometer rising quickly over Sweden and its neighbourhood, and fallen equally quickly in south Russia and the Black Sea. Morning readings highest, 30.40 ins. to 30.60 ins. and upwards in an anticyclone covering Ireland, England, the Netherlands, south-western Germany, the greater part of France, and the Bay of Biscay. Lowest, 29.3 ins. and less in a disturbance in the north of Finland, and about 29.4 ins. in another system on the northern shores of the Black Sea. Anticyclone decreasing in height during day, and cyclonic disturbances growing less deep.

Saturday, 18th January.

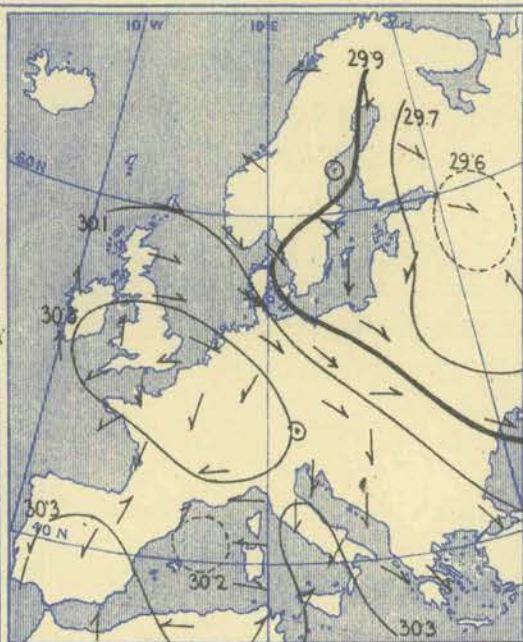
Temperature and Weather.

8 a.m.

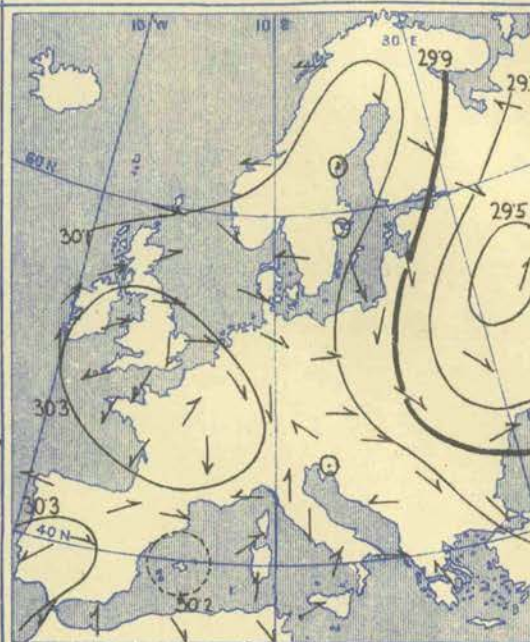


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in almost all parts of our area, but fine and bright at several Scandinavian and Adriatic stations. Fog in central and south-eastern England. Rain falling in the south-west of Norway, and at Swinemünde, and snow in northern and central Russia. Some rain during day at a few of our own western stations, and a heavy fall at Oporto. Snow in different parts of Scandinavia, Germany, and central and southern Russia.

Temperature falling decidedly in most parts of the United Kingdom and Scandinavia. Morning readings highest, 52° at Malta, 48° or 47° at some other stations in southern Europe, and 47° at Valencia (Ireland). Lowest, 2° at Haparanda, and ranging between 3° and 25° over Russia and Finland, 25° at Loughborough, 27° at Madrid, and 26° at Limoges. Rising subsequently to nearly 50° at some of our own western stations, to 57° at Marseilles and Cagliari, to 64° at Palermo, and 68° at Nemours; not rising to 32° in some parts of eastern France.

Wind at 8 a.m. light or moderate in almost all parts of Europe, but blowing a gale at Fanø. Mainly from between North and West over all the more northern regions, and Easterly or variable in the south. Wind backing to south-west along our own western and northern coasts by evening, and gale at Fanø dying down. Very little change elsewhere.

Barometer in morning highest, 30.3 ins. and upwards in an anticyclone covering the greater part of England and Ireland, and stretching south-eastwards to Bavaria; 30.3 ins. and upwards over Spain and western Algeria. Lowest, 29.6 ins. over north-western Russia. Very little change over the anticyclonic area during day, but disturbance in north-west Russia moving eastwards towards Moscow.

GENERAL NOTES.

At the commencement of the week barometric pressure was highest over southern Europe and the Mediterranean, and lowest in a disturbance disappearing over east Russia, and in another system shown off the north of Scotland. The latter moved eastwards, and, after having produced strong North-Westerly gales on the eastern shores of the North Sea, it dispersed over Russia. In its rear an anticyclone approached our north-western coasts. During the next few days this system moved over the United Kingdom to France, and increased in height until it contained barometer readings of 30.9 ins. and upwards. Towards the end of the week it decreased in intensity, and moved further to the northward again. The principle storm-centre to appear during the time the British Isles and their neighbourhood were under the influence of the high pressure, was one that travelled eastwards across the north of Sweden during the middle of the week. It was very deep and caused very strong gales over all the north and central parts of Europe and also in some parts of Scotland. The changes of pressure that accompanied this disturbance were unusually violent—especially in Scandinavia and Finland. The low pressure areas that have been observed over southern Europe from time to time have been mostly unimportant, but one which developed over the extreme south of Russia on Friday was rather deep. Very little rain has fallen over western Europe but in the northern and central countries cold rain or snow has been of rather frequent occurrence.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 14.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	2.5	- 3.7	5	- 8	BRIGHTON	5.5	- 6.0	9	- 11
STRATHPEFFER SPA	6.5	- 1.0	18	- 2	WORTHING	8.2	—	14	—
EDINBURGH	5.9	- 1.4	11	- 3	BOGNOR	13.0*	—	22*	—
MORPETH	7.8	—	15	—	WATERGATE (Emsworth)	5.9	—	10	—
NEWCASTLE-ON-TYNE	2.3	—	4	—	WESTBOURNE (Emsworth)	10.0*	- 2.4	17*	- 4
OSWALDKIRK (Yorkshire)	—	—	—	—	VENTNOR HOSPITAL	8.1	- 3.2	14	- 5
YORK	10.0	? - 6.5	? 0	? - 12	BOURNEMOUTH	16.8	—	29	—
LOWESTOFT	—	—	—	—	SOUTHPORT	18.2	—	24	—
HOLLESLEY BAY	16.8	—	30	—	RHYL	—	—	—	—
SHEFFIELD	6.2	—	11	—	COLWYN BAY	—	—	—	—
WORKSOP	8.5	+ 0.5	15	+ 1	ABERDOVEY	15.2*	—	28*	—
THURCASTON (Leicestershire)	9.8	+ 1.1	18	+ 2	TENBY	14.8	+ 1.5	26	+ 3
MARGATE	? 10.8	? + 0.5	? 19	? + 2	NEWQUAY	8.2	- 2.6	14	- 6
BROADSTAIRS	—	—	—	—	TORQUAY	12.8	- 0.2	22	- 0
EASTBOURNE	7.8	- 4.0	18	- 8	CAHIR (Dunake)	12.8*	—	23*	—
					GUERNSEY	4.6*	- 6.9	8*	- 11

* The values at Bognor, Westbourne, Rhyll, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, JANUARY 25TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The Daily Mean is obtained from the maxima and minima by applying a suitable correction determined for each month. The Mean for the Week is the mean daily temperature (obtained as above) in the corresponding week, derived from 50 years observations (1851-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The Means with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The Mean Amounts are those for the corresponding periods in the thirty-five years 1866-1900, but the Mean numbers of Rainy Days are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The Mean Values employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 20.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	24	45.6	36.4	41.2	3 above	Day-deg. 10	Day-deg. + 4	Day-deg. 24	Day-deg. - 13	Day-deg. 31	Day-deg. + 6	Day-deg. 103	Day-deg. - 40
	1. SCOTLAND, EAST	51	23	46.0	35.0	40.3	4 above	11	+ 3	29	- 14	39	+ 9	111	- 57
	2. ENGLAND, N.E.	53	28	47.9	39.5	43.9	6 above	24	+ 16	7	- 30	77	+ 46	63	- 83
	3. ENGLAND, EAST	54	24	46.9	36.9	42.1	5 above	22	+ 14	14	- 27	85	+ 53	65	- 97
	4. MIDLAND COUNTIES	54	21	47.2	36.7	42.2	4 above	21	+ 14	15	- 28	83	+ 44	68	- 101
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	52	21	46.7	38.2	42.6	3 above	20	+ 8	11	- 22	86	+ 37	42	- 87
	6. SCOTLAND, WEST	53	29	47.3	40.0	43.8	4 above	21	+ 11	6	- 25	66	+ 24	45	- 73
	7. ENGLAND, N.W.	53	23	47.0	40.2	43.7	5 above	19	+ 10	5	- 25	68	+ 28	14	- 74
	8. ENGLAND, S.W.	53	24	47.5	39.7	43.8	3 above	22	+ 7	6	- 18	103	+ 39	37	- 54
	9. IRELAND, NORTH	52	24	46.8	40.7	43.9	4 above	19	+ 6	4	- 22	67	+ 14	42	- 61
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	54	29	48.8	42.2	45.6	4 above	25	+ 5	0	- 20	101	+ 18	25	- 56
	-CHANNEL ISLANDS-	53	35	49.2	41.5	46.5	3 above	32	+ 9	0	- 11	159	+ 61	3	- 36

DISTRICTS. (See p. 20.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 25	10ths of in. 13 more	26	+ 6	Ins. 7.0	+ 1.9	4	- 8	8	- 6	13	- 11	7	- 5
	1. SCOTLAND, EAST	5	6	0 (average)	16	0	1.9	- 0.7	5	- 6	9	- 11	30	- 7	15	- 3
	2. ENGLAND, N.E.	3	2	2 less	11	- 4	1.2	- 0.5	7	- 6	12	- 9	27	- 15	9	- 7
	3. ENGLAND, EAST	3	1	3 less	11	- 5	0.8	- 1.0	13	- 1	23	- 2	46*	- 6	17	- 3
	4. MIDLAND COUNTIES	2	1	4 less	11	- 4	1.4	- 0.7	8	- 2	14	- 3	27*	- 8	14	- 4
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	2	2	4 less	10	- 5	1.3	- 1.1	12	- 1	20	- 2	37	- 12	14	- 6
	6. SCOTLAND, WEST	7	20	9 more	21	+ 2	5.1	+ 0.1	5	- 5	9	- 8	23	- 10	11	- 5
	7. ENGLAND, N.W.	5	8	1 more	17	+ 1	2.6	- 0.2	5	- 5	9	- 9	29	- 7	13	- 3
	8. ENGLAND, S.W.	5	5	4 less	15	- 3	2.3	- 1.5	7	- 5	12	- 10	28	- 21	12	- 9
	9. IRELAND, NORTH	6	11	4 more	20	+ 2	3.2	+ 0.3	2	- 9	8	- 17	22	- 18	10	- 9
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	4	8	1 less	15	- 3	2.5	- 1.4	5	- 10	9	- 15	27	- 24	11	- 11
	- CHANNEL ISLANDS-	4	7	0 (average)	14	- 4	1.7	- 1.4	4	- 13	7	- 21	26	- 33	9	- 14

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period varied greatly in different parts of the kingdom. In Scotland and the north of Ireland rain fell almost daily, and in the south of Ireland and western parts of England the conditions, although cloudy or dull, were almost continuously dry. Thunder was heard at Liverpool on Friday, heavy snow was experienced in some Scotch localities on Saturday, and a thunderstorm occurred in the west of Ireland and at Falmouth.

Temperature was very high during the greater part of the week, but fell suddenly towards its close. The averages for the week were above the mean in all districts, the excess ranging from 6° in England N.E. and 5° in England N.W. and E. to 3° in Scotland N., England S. and S.W., and the Channel Islands. The highest of the maxima were recorded, as a rule, either on the 21st or 22nd, and ranged from 54° in England E., the Midland Counties, and Ireland S. to 51° in Scotland E. At the end of the week the daily maxima in most parts of Great Britain were below 40°. The lowest of the minima were registered on Sunday over the centre and south-east of England, but on Saturday in other parts of the kingdom, they varied from 21° in England S. and the Midland Counties to 29° in Scotland W. and Ireland S., and to 35° in the Channel Islands.

Rainfall was much in excess of the mean in Scotland N. and W., and considerably so in Ireland N.; in nearly all other districts it was deficient, but just equalled the normal in Scotland E. and the Channel Islands.

Bright Sunshine was very little prevalent, being less than the mean value in all districts. The percentage of the possible duration ranged from 23 in England E. and 20 in England S. to 7 in the Channel Islands and 3 in Ireland N.

Barometer and Wind.—An anticyclone was observed over France and the Bay of Biscay until nearly the end of the week, when the system moved south eastwards and dispersed. Cyclonic disturbances consequently moved in an easterly track over the northern parts of our area; at first their centres passed at some distance from our Islands, but subsequently became closer until on Friday and Saturday the system observed passed very near the Shetlands. The South-Westerly and Westerly winds experienced were frequently fresh or strong in force, and on Friday a slight gale was felt in many districts, and a strong gale in the northwest of Ireland. Quite at the end of the period the barometer rose very quickly as the disturbance near the Shetlands passed eastwards, thus producing a strong Northerly and North-Westerly gale in nearly all parts of the kingdom—especially in the north and west.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
											Inches.	Inches.				
3. SCOTLAND, N.	Sumburgh Head	48	34	45.1	39.0	42.2	+ 3.2	14	8	7	1.13	+ 0.30	*	*	*	*
	Stornoway	51	30	46.7	35.9	41.3	+ 2.7	13	26	7	2.18	+ 1.41	6.0	- 1.9	32	- 3
	Wick	52	29	45.9	37.1	41.7	+ 4.1	11	21	5	0.96	+ 0.18	*	*	*	*
	Lairg	49	24	44.5	32.4	38.7	+ 3.5	7	37	6	0.94	+ 0.16	*	*	*	*
	Glencarron	47	24	44.6	36.0	40.5	+ 3.3	7	24	7	5.95	+ 3.47	*	*	*	*
	Fort Augustus	49	27	45.8	35.8	41.0	+ 3.0	11	26	7	2.31	+ 1.27	2.2	- 2.5	4	- 5
	Fort William	51	30	46.6	38.4	42.7	+ 3.9	20	10	7	4.88	+ 2.82	1.9	- 5.2	4	- 9
1. SCOTLAND, E.	Nairn	51	28	45.9	34.3	40.3	+ 2.9	11	31	5	0.48	+ 0.05	*	*	*	*
	Aberdeen	51	29	45.3	35.8	40.5	+ 2.8	9	27	5	0.55	+ 0.08	7.1	- 6.2	13	- 11
	Braemar	46	23	43.3	30.7	37.3	+ 2.9	4	43	4	0.76	+ 0.09	*	*	*	*
	Ochertyre	50	24	46.0	35.1	40.8	+ 3.9	11	29	7	0.96	- 0.09	*	*	*	*
	Leith	51	30	48.1	39.9	44.2	+ 5.2	24	6	5	0.39	- 0.06	*	*	*	*
	Marchmont	50	25	47.6	34.7	41.4	+ 4.8	16	31	4	0.51	- 0.09	6.0	- 4.6	11	- 8
2. ENGLAND, N.E.	Alnwick Castle	52	30	49.6	40.3	44.8	+ 7.0	27	5	5	0.67	+ 0.18	*	*	*	*
	Durham	52	29	47.7	38.7	43.4	+ 6.4	24	9	2	0.06	- 0.37	6.2	- 4.9	11	- 9
	Shields	52	30	48.6	40.3	44.6	+ 6.0	25	5	4	0.27	- 0.12	*	*	*	*
	Scarborough	53	28	48.7	39.9	44.5	+ 6.1	26	6	7	0.22	- 0.22	10.1	—	18	—
	Spurn Head	49	32	46.1	38.6	42.5	+ 4.2	18	10	1	0.02	- 0.26	*	*	*	*
	Fulbeck (Lincolnshire)	50	29	47.3	38.9	43.3	+ 6.9	22	9	1	0.01	- 0.36	*	*	*	*
3. ENGLAND, E.	Hillington	53	26	46.4	37.2	42.0	+ 5.0	12	13	3	0.20	- 0.25	5.5	- 5.9	10	- 10
	Yarmouth	51	29	46.4	36.7	41.7	+ 4.3	12	23	3	0.13	- 0.25	*	*	*	*
	Geldeston	54	28	48.0	38.2	43.3	+ 5.3	25	11	4	0.10	- 0.26	16.1	+ 3.4	25	+ 6
	Cambridge	53	26	48.1	36.3	42.4	+ 4.7	27	16	2	0.04	- 0.29	8.8	- 3.5	15	- 5
	Felixstowe	51	30	46.7	37.9	42.0	+ 3.6	19	11	1	0.08	—	22.4†	—	39†	—
	Rothamsted	52	24	47.0	35.2	41.8	+ 5.9	14	20	2	0.14	- 0.39	11.9	+ 0.6	20	+ 1
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	29	47.3	36.3	42.0	+ 4.1	15	16	1	0.02	- 0.38	*	*	*	*
	Loughborough	54	25	48.4	37.1	43.0	+ 5.1	28	14	2	0.09	- 0.36	*	*	*	*
	Colly Weston (Stamford)	53	22	48.6	36.0	42.6	+ 5.3	29	17	3	0.04	—	*	*	*	*
	Cheadle	50	25	45.5	36.7	41.3	+ 4.6	16	22	3	0.11	- 0.46	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	52	28	46.5	38.1	42.5	+ 4.5	20	11	2	0.14	- 0.33	9.0	—	15	—
	Churchstoke	53	25	47.0	37.8	42.6	+ 4.8	22	12	4	0.25	- 0.35	12.5	+ 0.6	22	+ 1
	Hereford	54	25	47.7	37.2	42.7	+ 4.0	25	13	1	0.05	- 0.50	*	*	*	*
	Gloucester	50	21	46.3	34.6	40.7	+ 3.1	12	31	2	0.22	- 0.42	7.6	- 4.0	13	- 7
	Oxford	52	28	47.4	36.7	42.3	+ 3.8	24	15	2	0.03	- 0.42	15.3	+ 4.3	27	+ 8
5. ENGLAND, S.	London	52	27	47.7	37.4	42.8	+ 3.8	25	13	2	0.08	- 0.35	7.4†	+ 0.8†	13†	+ 2†
	Swarraton (Alresford)	50	22	46.1	34.5	40.5	+ 2.9	11	31	2	0.14	- 0.54	*	*	*	*
	Dungeness	50	21	47.0	36.4	41.9	+ 2.6	14	25	2	0.28	- 0.12	11.6	—	19	—
	Hastings (St. Leonards)	49	31	46.2	40.0	43.2	+ 3.7	17	6	2	0.19	- 0.41	12.1	- 2.7	20	- 4
	Southampton	52	27	48.2	38.3	43.5	+ 3.5	26	10	3	0.21	- 0.46	10.5	- 2.0	15	- 3
	Portland Bill	49	35	47.1	42.9	45.1	+ 3.5	22	0	3	0.19	—	*	*	*	*
	Shaftesbury	48	28	44.8	37.8	41.4	+ 3.7	8	17	3	0.28	- 0.38	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	53	29	47.8	38.8	43.5	+ 3.6	24	9	7	3.95	+ 2.15	*	*	*	*
	Glasgow	49	31	46.3	39.6	43.1	+ 4.5	18	7	6	1.44	+ 0.61	1.2	- 5.4	2	- 10
	Glenlee	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Douglas (Isle of Man)	51	32	47.7	41.5	44.7	+ 4.2	21	1	7	0.74	- 0.18	8.5	- 4.0	15	- 7
7. ENGLAND, N.W.	Newton Reiguy	50	23	45.9	37.0	41.6	+ 5.9	11	21	7	0.83	—	2.7	—	5	—
	Stonyhurst	48	27	45.1	39.1	42.2	+ 4.3	14	8	7	1.90	+ 1.01	1.8	- 7.2	3	- 13
	Blackpool	49	31	46.3	40.1	43.3	+ 4.9	17	5	5	0.77	+ 0.14	2.7	- 7.0	5	- 12
	Manchester (Prestwich)	50	29	45.8	39.0	42.5	+ 4.3	16	8	6	0.62	- 0.05	2.6	—	3	—
	Liverpool Obs. (Bidston)	52	31	47.4	40.9	44.3	+ 4.8	21	3	4	0.64	+ 0.17	7.0	—	12	—
	Chester	53	31	49.6	41.3	45.6	+ 5.8	23	2	2	0.16	—	*	*	*	*
	Llandudno	52	33	48.8	41.7	45.4	+ 4.0	25	1	5	0.45	- 0.14	10.4	- 1.4	18	- 2
8. ENGLAND, S.W.	Holyhead	50	33	46.9	42.6	44.8	+ 3.0	20	0	5	0.66	- 0.04	*	*	*	*
	Llandoverly	50	24	46.3	37.3	42.0	+ 4.0	12	13	6	0.44	- 0.66	*	*	*	*
	Pembroke	50	24	47.9	42.7	45.4	+ 3.1	24	0	5	0.38	- 0.42	4.7	- 8.9	8	- 14
	Clifton	50	28	46.8	39.0	43.1	+ 3.3	20	8	4	0.28	- 0.45	*	*	*	*
	Bath	51	26	48.0	36.7	42.6	+ 2.4	26	15	4	0.25	—	5.9	—	19	—
	Arlington (N. Devon)	48	28	45.7	38.1	42.1	+ 1.9	17	11	5	0.67	- 0.33	*	*	*	*
	Callompton	53	28	48.0	38.9	43.6	+ 3.5	24	9	5	0.44	- 0.29	9.2	- 2.0	15	- 4
9. IRELAND, N.	Falmouth	52	34	49.0	42.5	45.9	+ 2.5	27	0	4	0.94	- 0.18	8.7	- 5.2	14	- 9
	Plymouth	50	34	48.2	42.5	45.5	+ 3.4	25	0	5	0.56	- 0.28	7.9	- 5.1	13	- 8
	Malin Head	49	32	46.0	41.3	43.7	+ 2.1	15	2	7	1.28	—	*	*	*	*
	Edenfel (Omagh)	50	24	45.0	38.7	42.0	+ 4.0	8	9	7	1.19	+ 0.44	*	*	*	*
	Blacksod Point	50	32	47.4	42.7	45.1	+ 2.3	22	0	7	1.62	—	*	*	*	*
	Markree Castle	52	29	48.3	41.0	44.8	+ 5.2	24	3	6	1.44	+ 0.64	2.2	- 8.6	4	- 15
10. IRELAND, S.	Armagh	51	28	46.3	39.8	43.2	+ 4.1	18	6	6	0.77	+ 0.17	1.2	- 10.3	2	- 18
	Donaghadee	52	30	47.9	40.9	44.5	+ 4.0	22	3	3	0.32	- 0.28	*	*	*	*
	Dublin	54	31	49.9	42.4	46.3	+ 4.5	30	0	3	0.13	- 0.35	7.5	- 6.8	13	- 11
	Parsonstown	52	29	47.1	40.3	43.8	+ 3.9	20	5	6	0.77	+ 0.14	3.4	- 9.3	6	- 16
	Kilkenny	53	29	47.7	39.7	43.9	+ 2.9	23	6	3	0.64	- 0.09	*	*	*	*
	Roche's Point	52	32	48.5	43.6	46.2	+ 2.8	29	0	5	0.97	- 0.16	*	*	*	*
CHANNEL ISLANDS	Valencia	53	35	50.3	45.1	47.8	+ 3.3	41	0	7	1.50	+ 0.15	2.4	- 11.9	4	- 19
	Killarney	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Foynes	52	30	48.9	42.3	45.7	+ 4.1	26	0	3	0.69	- 0.08	*	*	*	*
	Seilly (St. Mary's)	53	38	50.4	44.1	47.4	+ 1.7	38	0	5	0.41	- 0.36	7.8	—	13	—
	Jersey	50	35	48.0	42.9	45.6	+ 3.2	25	0	3	0.56	+ 0.28	2.0	- 14.6	3	- 24

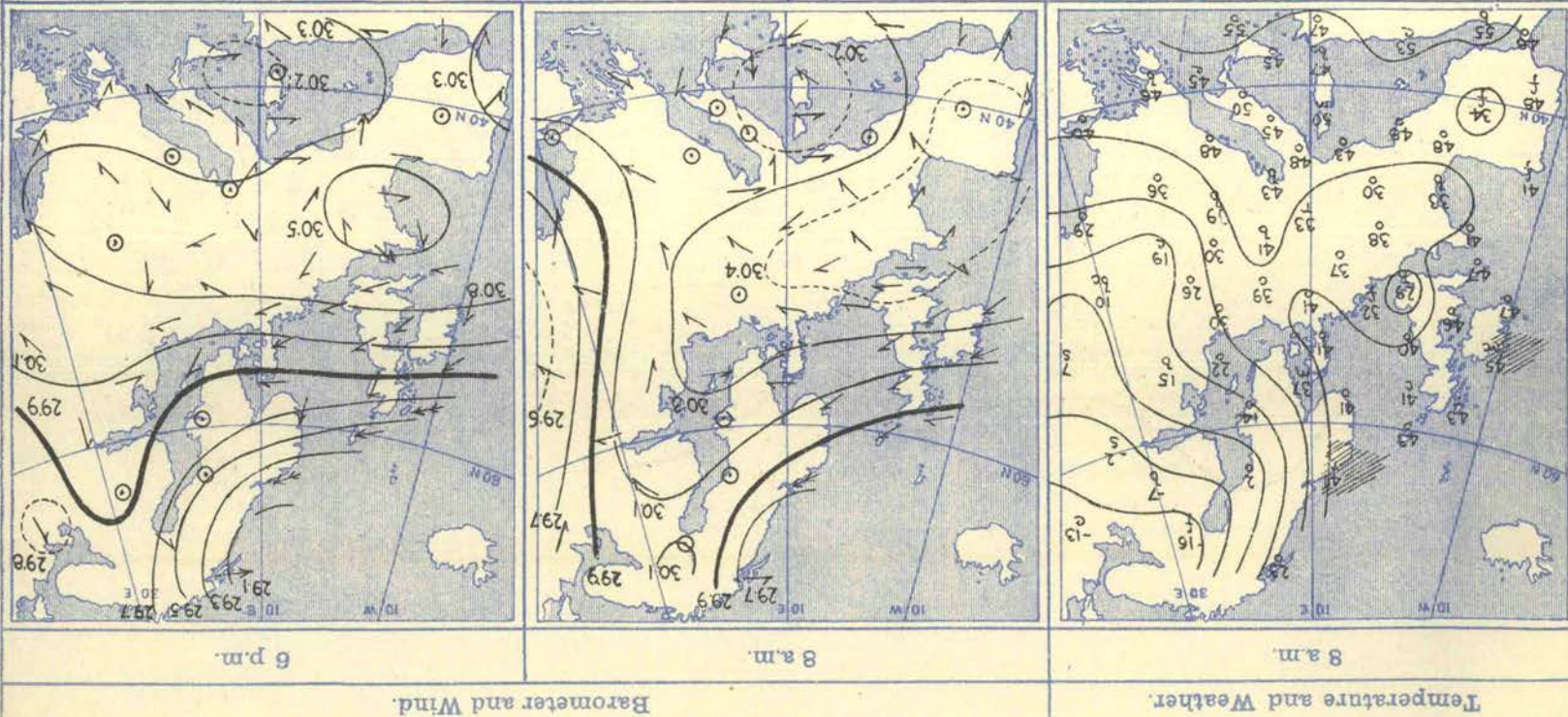
Stations marked $\mathcal{M}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 19th January.



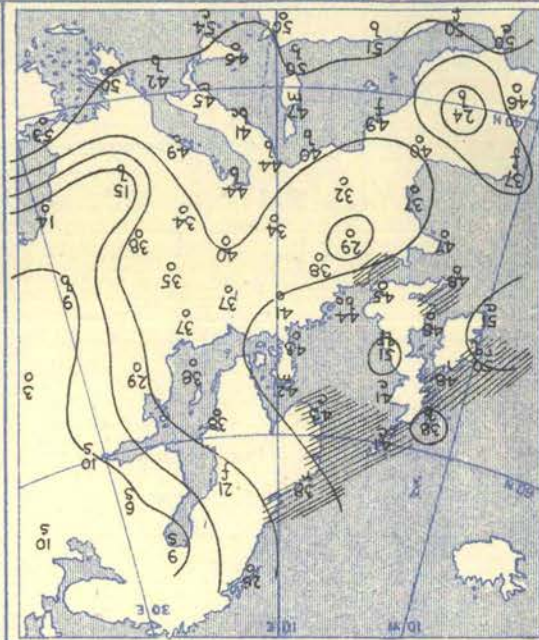
Weather in morning cloudy or dull very generally; foggy over the centre and south-east of England, as well as on the west coast of the Spanish Peninsula. Rainy at Paris, Lyons, and Christiania, and showers at St. Petersburg. Snow falling at Karstad, St. Petersburg, Moscow, and Rharzov. Rain falling later in the north and west of our Islands, and in some parts of Italy, and rain or snow in Norway, Sweden, and Finland.

Temperature fallen quickly over our own southern districts, and in most northern regions. Readings at 8 a.m. highest, 56° at Malta and Nemours, and 52° at Algiers. Lowest, 16° at Ulsborg, 15° at Haparanda, 13° at Archangel, 2° at St. Petersburg, and much below the freezing point over the whole of Russia, Finland, and Sweden: 29° at Loughborough. Rising later to 50° or 51° in several parts of the United Kingdom, to 54° in the Riviera, 61° at Malta, and 64° at Algiers.

Wind in morning light and variable on our southern coasts, in France, and over the Bay of Biscay; South-Westerly over the greater part of our Islands and Scandinavia, but Easterly in Denmark; Northerly and North-Westerly throughout Russia. Light or moderate in force in Italy, the Riviera, and the neighbouring gulfs and islands. Light or moderate in force in almost all regions, but fresh or strong in direction during day, but wind increasing in force over the United Kingdom, Scandinavia, and northern Europe generally.

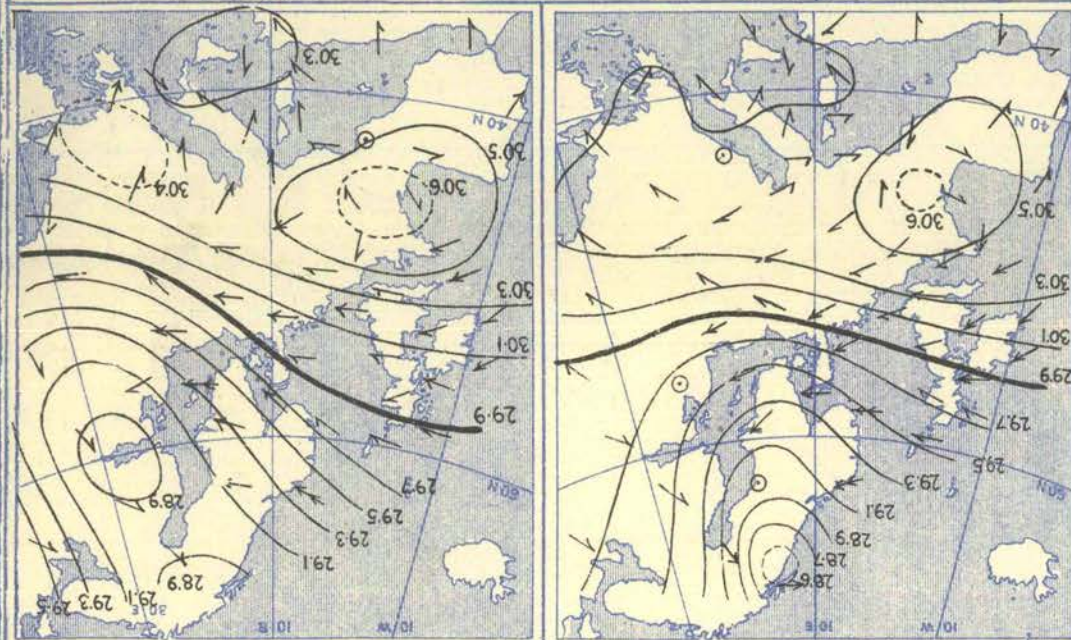
Barometer at 8 a.m. highest, 30.1 ins. and upwards in an anticyclone lying over the south of England, Belgium, western Germany, France, the Bay of Biscay, and the northern half of Spain. Lowest, 29.6 ins. and less in a cyclonic system over central Russia, 29.7 ins. and less over the western Mediterranean. Anticyclone spreading eastwards later, and barometer falling quickly in Scandinavia. Disturbance appearing off the south-west of Spain.

Temperature and Weather.



8 a.m.

Barometer and Wind.



Weather in morning fine in the south of France and most parts of Italy, cloudy or dull in nearly all other regions. Rain falling over Ireland, the north of England, at Christiania, and over northern and western stations, and also in north Germany and Holland. Snow falling at Karstad, St. Petersburg, Moscow, and Rharzov. Rain falling later in the north and west of our Islands, and in some parts of Italy, and rain or snow in Norway, Sweden, and Finland.

Temperature risen rapidly over England, Sweden, Finland, and northern Russia. Readings at 8 a.m. ranging from 54° at Malta, 55° at Constantinople, and 51° or 50° in the south and west of Ireland, to 29° at St. Petersburg and Archangel, 3° at Moscow, and -1° at Rharzov. Rising subsequently to 50°, or rather above, in nearly all parts of the United Kingdom, to 59° at Croisette, and 60°, or a little above, on the Algerian coast.

Wind in morning Westerly over the whole of these Islands, central Europe, and Norway and Denmark, but drawing into South in Finland, and into South-East and East in the extreme north of Scandinavia. Strong in many localities, and blowing a gale at Christiania, Sicily, and the Tyrrhenian Sea. Wind veering generally over northern Europe later, and increasing to a gale in the south of Sweden and the Baltic. No material change elsewhere.

Barometer risen over southern Europe, fallen generally—rapidly in Sweden and its neighbourhood, and less in the north—over the greater part of central Europe, and upwards in an anticyclone covering France, and extending eastwards to central Europe, and southwards to Spain and western Algeria. Lowest, 29.6 ins. in a large and deep cyclonic disturbance near Bodo. A second cyclonic centre forming later over the Balkan Peninsula, and northern disturbance apparently moving south-eastwards to the Gulf of Finland.

Tuesday, 21st January.

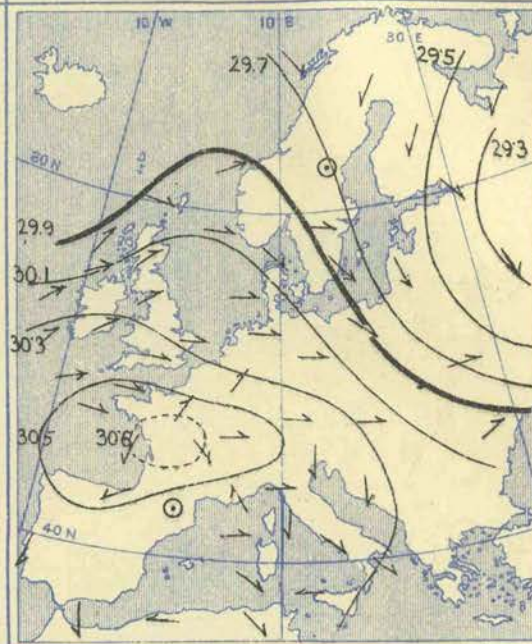
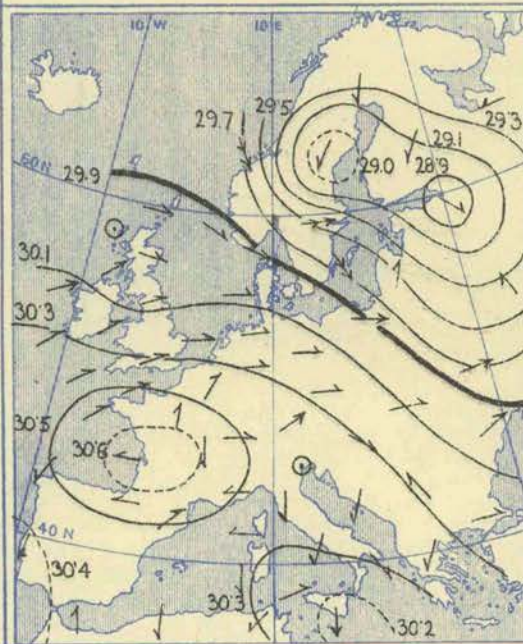
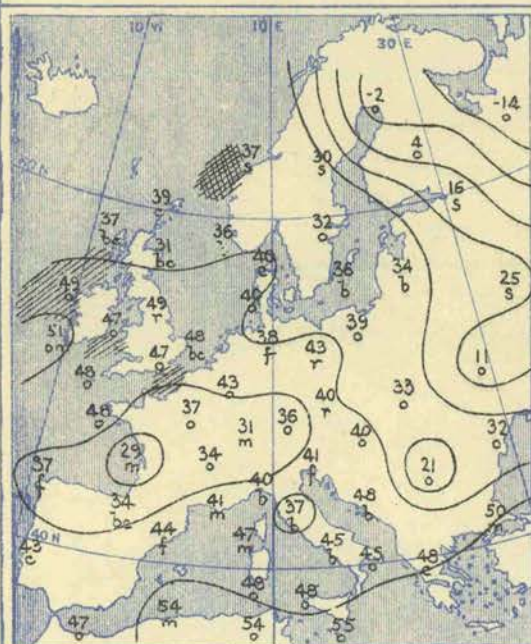
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair in the south of Scandinavia and at some Baltic stations, as well as in the Riviera and north of Italy. Cloudy or dull in nearly all other regions, with rain at several Irish stations, and at some in the north of England and central Europe. Snow falling in some parts of Scandinavia, and central and southern Russia. Rain later over the west and north of the United Kingdom generally, the Netherlands, and at Munich.

Temperature fallen in Scotland and northern Europe, as well as in the south-west of France, risen in most other countries. Readings at 8 a.m. highest, 55° at Malta, 54° at Algiers, and 51° at Valencia (Ireland). Lowest—14° at Archangel, -2° at Ulesborg, and +2° at Haparanda. Much below the freezing point over Russia generally. Only 33° at Pesaro and Florence, and 28° at Perpignan. Lowest in our Islands, 31° at Naim and Aberdeen. Maxima recorded during day ranging from 50° to 54° over the United Kingdom, to 59° at Cagliari and Algiers, and to 61° at Nemours.

Wind in morning Westerly or South-Westerly over the whole of the United Kingdom, and the central countries, and blowing a gale at Warsaw. Strong to a gale from North-West over Scandinavia, and drawing into South-East and East over central and northern Russia. Rather variable in southern Europe, but mainly light from North-East or North. Wind backing to South-West or south in Scotland by evening, and to West in Norway, but veering to the North-Westward over north Russia. Gales in north subsiding.

Barometer risen over western, fallen over eastern Europe. Morning readings highest, 30.5 ins. and upwards over France and the Bay of Biscay, and lowest, 28.9 ins. in a complex disturbance having two centres, one lying near Hernösand, and the other near St. Petersburg. Northern disturbance moving away quickly eastwards during day, but another system apparently approaching our north-western coasts; scarcely any change within the anticyclonic area.

Wednesday, 22nd January.

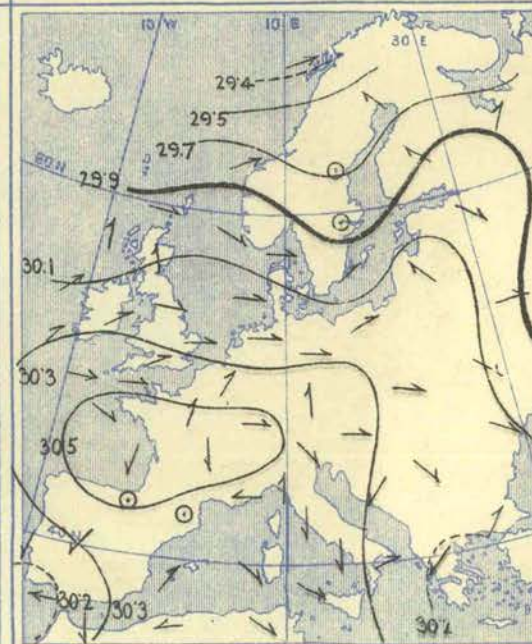
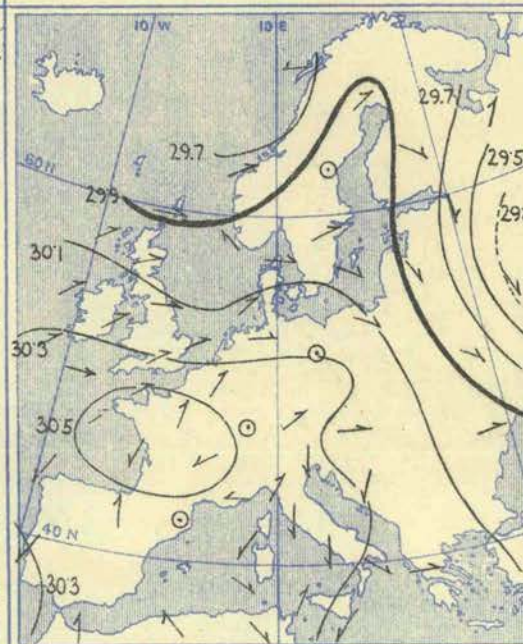
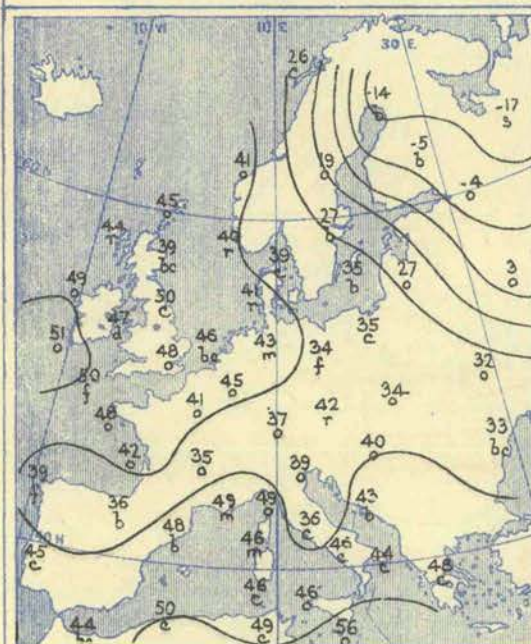
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in the east of Scotland, several parts of Sweden and Finland, and also at some southern French stations. Cloudy or dull over our area generally, with rain at some of our own extreme western and north-western stations, and at Prague, and snow at Archangel and Kharkov. Rain falling subsequently in the Netherlands and north Germany, and a considerable amount at Cracow.

Temperature risen quickly in the west of France and the east of Scotland, and fallen quickly over north-eastern Europe. Readings at 8 a.m. highest (1) 56° at Malta, 50° at Algiers; (2) 51° at Valencia (Ireland), and 50° at Shields, Donaghadee, and Scilly. Lowest (1) -4° over the north of Russia and Finland; (2) 28° at Perpignan and Turin, 24° at Pesaro, and 36° at Rome. Lowest in our Islands, 39° at Aberdeen. Rising during day to between 50° and 52° over the United Kingdom, to rather a higher value in the south of France and Italy, to 60° at Palermo, and to 63° at Nemours. Temperature remaining very low over Russia—maximum at St. Petersburg only 10°.

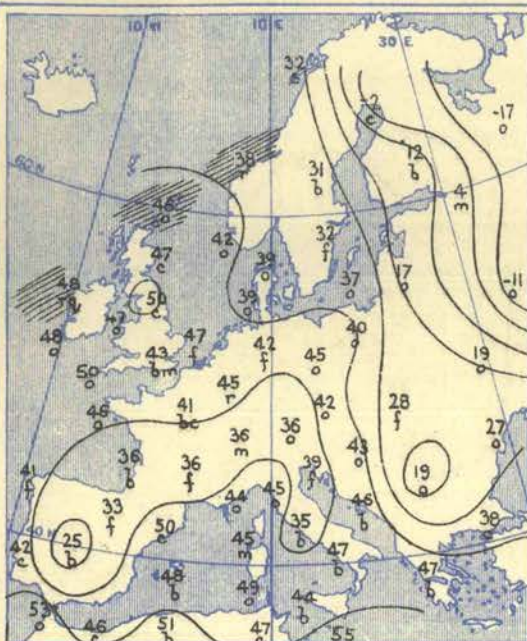
Wind during early part of day light and moderate from between South-West and West over our Islands, the North Sea, and most parts of Scandinavia, but drawing into East at Bodø, and into North-West and North over Finland and Russia. Light from North-East or East in the southern half of France, variable in Italy, and North-Westerly at Palermo. Very little change as a whole during day, but wind shifting to West-South-West at Bodø, and to South-East in Finland.

Barometer at 8 a.m. highest, 30.4 ins. and upwards in an anticyclone over France, the Bay of Biscay, the English Channel, Bavaria, and Switzerland. Lowest, 29.4 ins. and less in a disturbance near Moscow, and 29.7 ins. and less in another system advancing towards the north-west of Norway. Anticyclone decreasing somewhat in height later, and disturbance off Norway moving eastwards to Lapland; system over central Russia moving away eastwards. Shallow cyclonic disturbances appearing over Greece, and the south-west of Spain.

Thursday, 23rd January.

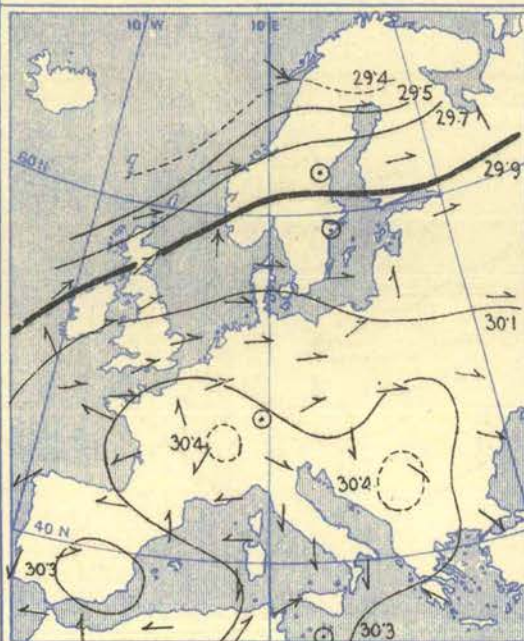
Temperature and Weather.

8 a.m.

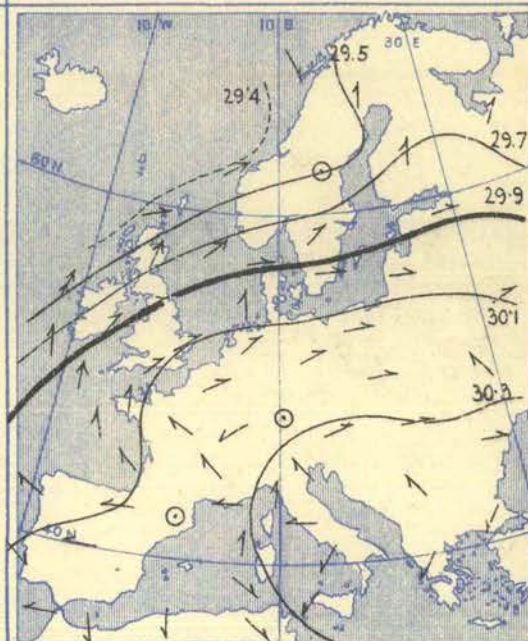


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at some stations in southern Europe, but cloudy or dull as a whole. Rainy at Blacksod Point, Brussels, and Christiansund, and snow falling at Bodö and Helsingfors. Fog prevalent in the south of Sweden, at Copenhagen, Cuxhaven, and the Helder, as well as in the south-west of France and at Corunna. Heavy rain later in Ireland, and smaller amounts in many parts of the United Kingdom. Nearly 2 ins. falling at Christiansund.

Temperature risen in Sweden, Finland, Prussia, and Scotland, fallen in most other countries. Readings at 8 a.m., highest, 55° at Malta, 53° at San Fernando, 50° at Leith and Shields. Lowest (1) -17° at Archangel, -11° at Moscow, +4° at St. Petersburg, 11° at Haparanda, and 20° at Kharkov; (2) 25° at Madrid; (3) 35° at Rome, 36° at Florence. Rising to 50° in different parts of our Islands during day, to 59° at Marseilles, and to 66° at Algiers.

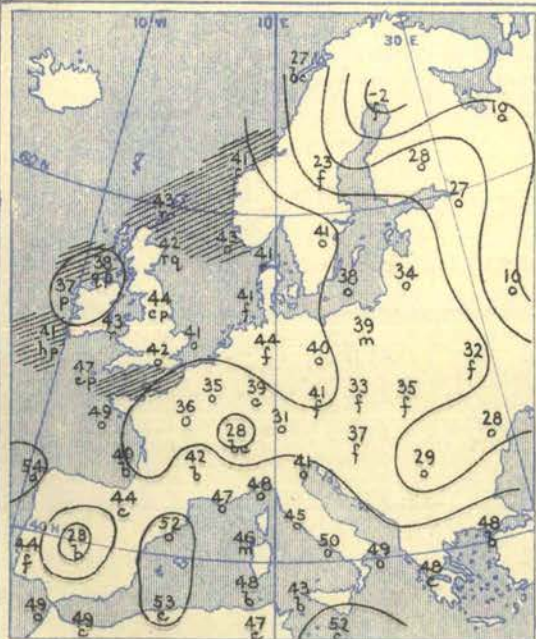
Wind in morning Southerly and strong in the west of Ire'and, and South-Westerly or Westerly, moderate, over the northern half of Europe generally. Light and very variable over the southern countries and the Mediterranean. Wind backing somewhat during day over all western and northern regions, and increasing to a fresh gale in Ireland, and to a moderate gale in the west of Norway; very little change elsewhere.

Barometer in morning highest, 30.3 ins. to 30.4 ins. in a large but decreasing, anticyclone over France and the greater part of central and southern Europe. Lowest, 29.4 ins. and less in the extreme north and north-west of our area. High pressure moving south-eastwards during day, and continuing to decrease in height, and a cyclonic system approaching our Islands from the Atlantic.

Friday, 24th January.

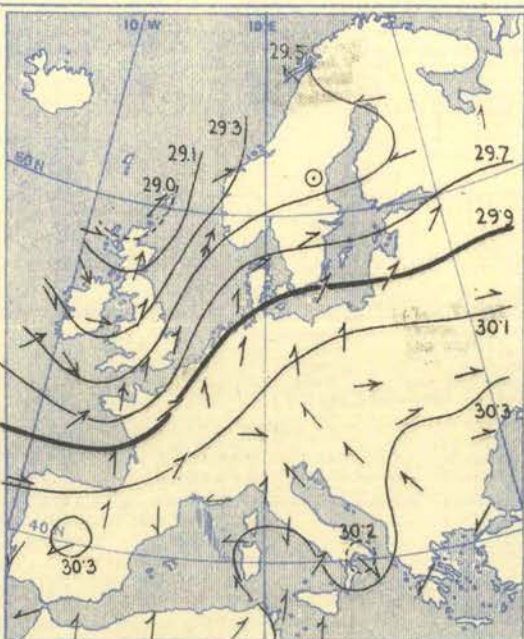
Temperature and Weather.

8 a.m.

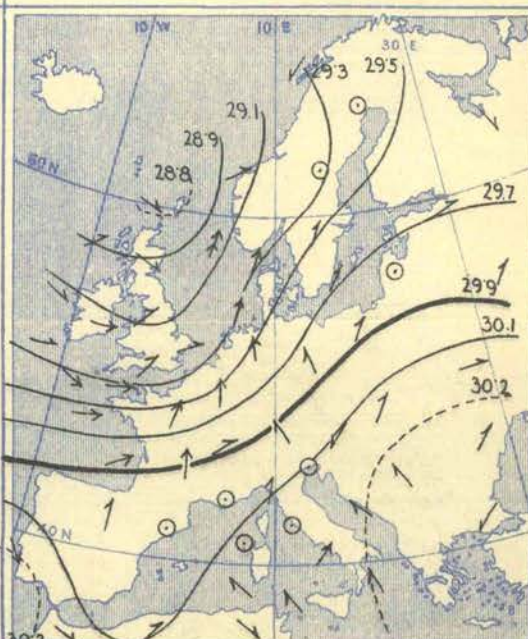


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in some parts of southern Europe and the Mediterranean, cloudy or dull elsewhere, with fog at Lisbon, in Denmark, the Gulf of Bothnia, and the central regions of Europe, and rain in many parts of our Islands, and at Skagen. Rain, sleet, or snow falling during ensuing twenty-four hours over the whole of the United Kingdom, the Netherlands, Norway, and the greater part of France.

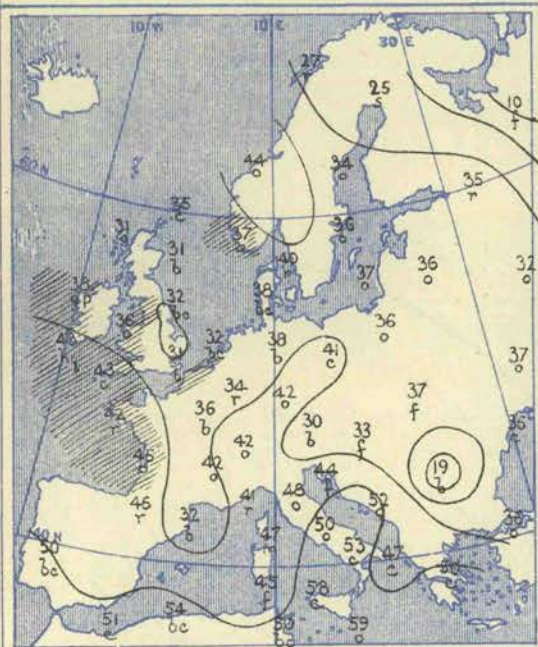
Temperature fallen decidedly over the United Kingdom, and the north of France and Italy, risen quickly in the south of Sweden, Finland, and Russia. Readings at 8 a.m., highest, 54° at Corunna, 53° at Algiers, and 52° at Malta and Barcelona. Lowest, -2° at Haparanda, +10° at Archangel, Moscow, and Kharkov; 23° at Madrid, Belfort, and Turin. Rising later to 49° at Jersey, to 46°, or rather higher, in the south and west of France, to 63° at Palermo, and to 68° at Algiers. Not touching 40° at some Scotch stations nor at Parsonstown.

Wind in morning strong from West or North-West at our own western stations, and fresh or strong from the Southward in the remainder of the United Kingdom, the west and north of France, the North Sea, and adjacent countries. Light and mainly from the Westward over central Europe, and the southern half of Russia, and light and variable over the Mediterranean and its neighbourhood. Wind veering somewhat later and increasing in force over all the western countries, and backing to South-West in most eastern regions. Barometer fallen quickly over our Islands, and briskly over north-western Europe generally, risen in the extreme south-east. Readings in morning highest, 30.2 ins. to 30.3 ins. over the Spanish Peninsula, and above 30.3 ins. over south-eastern Europe, Sicily, the Tyrrhenian Sea, and Sardinia. Lowest, less than 29.0 ins. over and off the north of Scotland. Northern disturbance moving eastwards during day, and barometer falling throughout our area, but very little change taking place in the general distribution of pressure.

Saturday, 25th January.

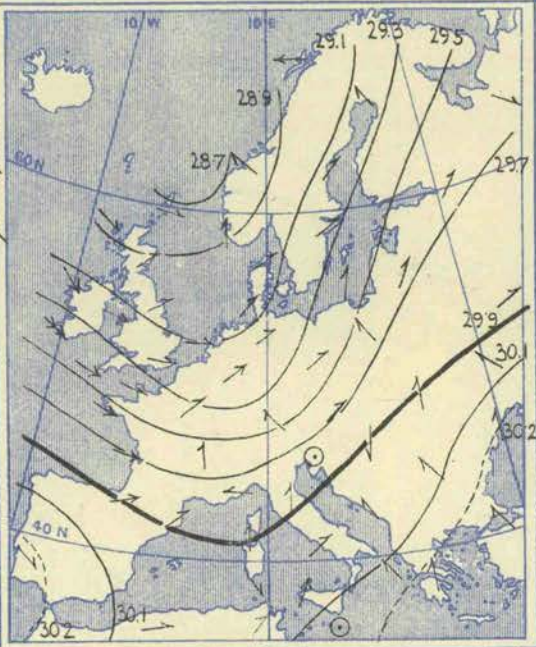
Temperature and Weather.

8 a.m.

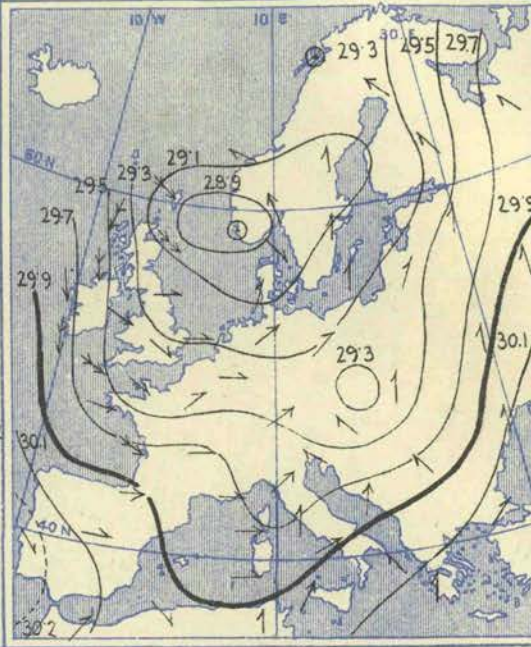


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in many parts of the United Kingdom, cloudy or dull in nearly all other regions. Snow showers falling in the south of Ireland, and at Wick, and rain in the west and south-west of France, at Brussels, and St. Petersburg. Snow at Bodö, the Helder, and Turin. Rain or snow falling later over the United Kingdom, Scandinavia, and most parts of France—as much as 1.2 ins. at Nancy; snow in many German localities and rain in Italy.

Temperature fallen quickly over our Islands and their immediate neighbourhood, risen quickly over Russia, and the north of Sweden. Morning readings highest, 59° at Malta, 58° at Palermo, 54° at Algiers, and 50° at Oporto and Lisbon. Lowest (1) 10° at A-changel; (2) 19° at Hermanstadt; (3) 32° at Turin; (4) 23° at Newton Reigny, 29° at Loughborough, and 20° at Parsonstown. Thermometer rising later to 56° and upwards in the west and south of France, to 64° at Palermo, and to 66° at Algiers. Maxima not exceeding 36° in the north and east of Scotland.

Wind in morning strong to a gale from between North-West and West along the western coasts of our Islands and France, and light or moderate from South-West or South over Germany, the Netherlands, Denmark, and the greater part of Scandinavia; Easterly at Bodö. Light and chiefly from some southerly point over the southern and south-eastern countries. Wind veering to North or North-West over the whole of the United Kingdom during day, and increasing to a very strong gale on all our more northern and western coasts. Blowing strongly from West and South-West over Italy and its neighbourhood.

Barometer fallen in all regions excepting that of the White Sea and the extreme south-west of Spain. Readings at 8 a.m. highest, 30.2 ins. and upwards in the south-east of Europe and Asia Minor, and also in another area over Portugal. Lowest, below 28.7 ins. to the northward of the Shetlands. Northern disturbance moving south-eastwards during day, and barometer rising very quickly in its rear. Two other cyclonic systems appearing—one near Cracow, and the other (with two minima) over the north of Italy.

GENERAL NOTES.

During the greater part of the period an anti-cyclonic system lay persistently over France and the Bay of Biscay, and occasionally extended to the southern countries and the parts of the Mediterranean adjoining. All the cyclonic disturbances of importance were confined to the more northern regions of Europe, where they were at times large and deep, and caused South-Westerly to Westerly or North-Westerly winds, with occasional gales in the more northern countries, frequent rain on our own north-western and northern coasts, and rain or snow in Scandinavia, Denmark, and Northern Russia. By Thursday the anti-cyclone began to give way and to move south-eastward, and this movement continued until the close of the week, when it had become much restricted in size, and lay over south-eastern Europe. Another high pressure system by this time had, however, appeared over Portugal. With this change the northern disturbances took a more southerly track and skirted our north-western and northern coasts. The system that appeared off the north of Scotland on Friday was accompanied by a sudden and decided fall of temperature, and as it passed away eastward on Saturday a rapid rise of the barometer in its rear produced very strong Northerly gales in almost all parts of our Islands, and snow in many places. Very little rain was experienced over the southern countries generally during the week, but by Saturday rain was falling in the south-west and south of France, and snow at Turin.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 20.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	6.2	- 1.5	12	- 3	BRIGHTON	11.8	- 1.0	20	- 1
STRATHPEFFER SPA	2.9	- 6.1	6	- 11	WORTHING	12.5	—	21	—
EDINBURGH	1.1	- 7.5	2	- 14	BOGNOR	15.9*	—	27*	—
MORPETH	10.4	—	19	—	WATERGATE (Emsworth)	12.9	—	22	—
NEWCASTLE-ON-TYNE	4.7	—	8	—	WESTBOURNE (Emsworth)	11.1*	- 2.4	13*	- 3
OSWALDKIRK (Yorkshire)	—	—	—	—	VENTNOR HOSPITAL	11.2	- 1.5	19	- 1
YORK	2.0	- 6.0	4	- 10	BOURNEMOUTH	13.4	—	22	—
LOWESTOFT	15.5	—	27	—	SOUTHPORT	3.9	—	7	—
HOLLESLEY BAY	13.0	—	22	—	RHYL	—*	—	—*	—
SHEFFIELD	5.5	—	10	—	COLWYN BAY	—	—	—	—
WORKSOP	4.2	- 4.9	7	- 9	ABERDOVEY	9.3*	—	16*	—
THURCASTON (Leicestershire)	3.8	- 6.2	7	- 10	TENBY	7.4	- 7.1	13	- 12
MARGATE	7.8.8	- 2.3	15	- 2.4	NEWQUAY	4.7	- 8.9	8	- 14
BROADSTAIRS	12.0	—	20	—	TORQUAY	9.6	- 4.4	16	- 7
EASTBOURNE	11.4	- 1.9	19	- 3	CAHIR (Dunesske)	6.7*	—	12*	—
					GUERNSEY	2.3*	- 11.2	4*	- 18

* The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.
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Vol. XIX. No. 5.]
 Fourth Series.

WEEK ENDING SATURDAY, FEBRUARY 1ST, 1902.

[Price 6d.
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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 26.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	44	2	32.3	18.0	25.4	12 below	Day-deg. 0	Day-deg. - 6	Day-deg. 116	Day-deg. +80	Day-deg. 31	Day-deg. 0	Day-deg. 219	Day-deg. + 40
	1. SCOTLAND, EAST .	41	2	33.7	17.7	26.0	11 below	0	- 8	112	+70	89	+ 1	223	+ 13
	2. ENGLAND, N.E. .	43	17	38.5	28.7	33.8	4 below	0	- 8	57	+22	77	+ 38	120	- 61
	3. ENGLAND, EAST .	46	25	39.1	29.9	34.5	3 below	0	- 9	53	+13	85	+ 44	118	- 84
	4. MIDLAND COUNTIES	50	21	39.3	28.6	34.2	4 below	0	- 11	55	+15	83	+ 33	123	- 86
5. ENGLAND, SOUTH .	51	25	41.2	31.0	36.7	3 below	0	- 13	37	+ 6	86	+ 24	79	- 81	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	43	15	35.9	25.0	30.7	9 below	0	- 9	79	+49	66	+ 15	124	- 24
	7. ENGLAND, N.W. .	46	16	39.2	29.5	34.6	5 below	0	- 10	52	+22	68	+ 18	95*	- 53
	8. ENGLAND, S.W. .	50	22	42.9	33.5	38.4	3 below	3	- 13	32	+ 9	106	+ 26	69	- 45
	9. IRELAND, NORTH .	49	20	40.0	30.2	35.3	5 below	0	- 14	47	+22	67	0	89	- 39
	10. IRELAND, SOUTH .	51	24	44.1	32.3	38.4	4 below	6	- 15	37	+17	107	+ 3	62	- 39
	—CHANNEL ISLANDS.	51	32	46.0	38.2	42.2	2 below	17	- 7	11	+ 1	176	+ 54	14	- 35

DISTRICTS. (See p. 26.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	3	10ths of in. 3	10ths of in. 9 less	29	+ 4	7.3	+ 1.1	25	+16	46	+30	38	+ 5	15	+ 2	
	1. SCOTLAND, EAST .	3	2	4 less	19	0	2.1	- 1.1	18	+ 5	32	+10	48	- 2	19	0	
	2. ENGLAND, N.E. .	3	2	2 less	14	- 4	1.4	- 0.7	23	+13	40	+23	50	- 1	17	0	
	3. ENGLAND, EAST .	4	4	1 less	15	- 5	1.2	- 1.0	30	+15	49	+26	76	+ 9	23	+ 3	
	4. MIDLAND COUNTIES	3	3	2 less	14	- 5	1.7	- 1.0	25	+15	41	+26	62	+ 7	21	+ 3	
5. ENGLAND, SOUTH .	2	4	2 less	13	- 6	1.7	- 1.2	29	+14	47	+23	66	+ 2	21	+ 1		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	3	4	8 less	24	+ 1	5.5	- 0.7	22	+11	38	+19	45	+ 1	17	0	
	7. ENGLAND, N.W. .	4	5	1 less	21	+ 1	3.1	- 0.4	25	+14	42	+23	55*	+ 7	20	+ 3	
	8. ENGLAND, S.W. .	4	9	0 (average)	19	- 3	3.2	- 1.5	30	+15	48	+24	53	- 6	20	- 2	
	9. IRELAND, NORTH .	4	6	1 less	24	+ 1	3.8	+ 0.2	24	+11	40	+19	46	- 7	17	- 2	
	10. IRELAND, SOUTH .	3	6	3 less	18	- 5	3.1	- 1.7	26	+12	43	+20	53	- 12	18	- 5	
	— CHANNEL ISLANDS.	5	8	1 more	19	- 4	2.5	- 1.3	27	+ 7	42	+11	53	- 26	15	- 9	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was unsettled during the early part of the week, with snow in the north, and cold rain, sleet, or snow elsewhere. Later on, however, the conditions improved greatly; clear skies became general and the air very dry and keen.

Temperature was below the mean in all parts of the Kingdom; over England and Ireland the deficit ranged from 3° to 5°, and in the Channel Islands it was only 2°, but in Scotland it was unusually large, varying from 9° in the west to as much as 13° in the north. The highest of the maxima occurred during the earlier days of the week in the English and Irish districts, but towards its close in Scotland. They ranged from 51° in England S., the Channel Islands, and Ireland S., to 41° in Scotland E. At several Scotch stations the daily maxima were sometimes below 32°, and at Fort William on Thursday the thermometer did not exceed 22°. The absolute minima, which were mostly registered during the latter half of the week, were as low as 2° in Scotland N. and E., and 15° in Scotland W.; elsewhere they ranged from 16° in England N.W. and 17° in England N.E., to 26° in Ireland N., 25° in England E. and S., and to 32° in the Channel Islands.

Rainfall was less than the mean in nearly all districts, but just equalled it in England S.W., and slightly exceeded it in the Channel Islands.

Bright Sunshine was (after the first few days) very prevalent and greatly exceeded the normal amount. The percentage of the possible duration ranged from 49 in England E., 48 in England S.W., and 47 in England S., to 41 in the Midland Counties, 38 in Scotland W., and 32 in Scotland E.

Barometer and Wind.—At the commencement of the week pressure over our Islands was increasing quickly in the rear of disturbances which had reached Norway and Denmark from the westward, and the wind was blowing a strong gale from the Northward on all our northern coasts. By Monday morning, however, another disturbance had advanced over us from the Atlantic, and the gales had subsided. This system remained stationary for almost 24 hours, when it moved quickly away east-south-eastwards, and the barometer rose with great rapidity over our Islands. The increase of pressure continued uninterruptedly until almost the end of the period, by which time an anticyclone lay over the northern part of our Islands and its neighbourhood; in the centre the barometer recorded the unusually high value of 31.10 ins. The advent of this anticyclone caused the wind to shift, at first to the Northward, and subsequently to the North-eastward, and as on Saturday pressure was giving way over France, strong North-easterly winds and gales set in over all our more southern coasts.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
										Inches.	Inches.					
0. SCOTLAND, N.	Sumburgh Head	44	22	36.0	26.1	31.3	- 7.5	0	75	3	0.11	- 0.71	*	*	*	*
	Stornoway	42	17	36.4	20.3	28.7	-10.2	0	93	5	0.69	- 0.35	23.3	+ 18.0	51	+ 32
	Wick	39	12	32.7	19.0	26.1	-11.6	0	111	4	0.36	- 0.12	*	*	*	*
	Lairg	36	2	30.8	9.1	20.4	-15.1	0	151	5	0.31	- 0.47	*	*	*	*
	Glencarron	39	13	30.1	18.0	24.3	-13.0	0	124	2	0.16	- 1.80	*	*	*	*
	Fort Augustus	36	9	31.0	14.8	23.2	-14.8	0	132	3	0.15	- 0.87	21.7	+ 15.0	39	+ 28
	Fort William	33	12	28.8	18.7	24.0	-14.9	0	126	2	0.37	- 1.65	27.1	+ 18.1	48	+ 33
1. SCOTLAND, E.	Nairn	35	7	33.1	13.7	23.8	-13.7	0	127	4	0.27	- 0.16	*	*	*	*
	Aberdeen	33	14	32.6	18.7	25.9	-11.9	0	113	4	0.36	- 0.18	24.6	+ 9.6	44	+ 18
	Braemar	31	2	27.0	10.6	19.1	-15.3	0	160	4	0.26	- 0.42	*	*	*	*
	Ochertyre-	40	16	36.9	17.7	27.7	- 9.7	0	100	2	0.12	- 0.88	*	*	*	*
	Leith	41	19	36.7	23.4	30.3	- 9.1	0	82	3	0.10	- 0.38	*	*	*	*
	Marchmont	40	18	35.9	21.9	29.2	- 7.6	0	90	3	0.30	- 0.30	17.0	+ 4.2	30	+ 9
2. ENGLAND N.E.	Alnwick Castle	42	17	39.6	22.2	31.3	- 6.6	0	75	4	0.17	- 0.35	*	*	*	*
	Durham	41	23	35.6	25.9	30.9	- 6.4	0	78	2	0.03	- 0.38	21.6	+ 8.6	37	+ 15
	Shields	43	25	38.4	27.9	33.4	- 5.3	0	60	3	0.16	- 0.21	*	*	*	*
	Scarborough	41	24	38.8	30.1	34.6	- 4.1	0	52	4	0.34	- 0.09	23.0	—	47	—
	Spurn Head	41	29	39.0	31.0	35.2	- 3.2	0	48	2	0.15	- 0.12	*	*	*	*
	Fulbeck (Lincolnshire)	40	26	39.3	34.9	37.2	+ 0.3	0	34	3	0.20	- 0.17	*	*	*	*
3. ENGLAND, E.	Hillington	42	26	38.5	30.3	34.6	- 3.0	0	52	3	0.42	- 0.01	31.1	+ 17.8	52	+ 30
	Yarmouth-	42	29	38.0	31.0	34.6	- 3.1	0	52	5	0.44	+ 0.03	*	*	*	*
	Gedeston	44	25	38.9	30.3	34.8	- 3.7	0	50	5	0.29	- 0.08	26.1	+ 11.7	43	+ 20
	Cambridge	46	25	40.3	29.0	34.9	- 3.3	0	50	3	0.18	- 0.15	28.3	+ 14.8	47	+ 25
	Felixstowe	44	25	39.2	29.7	34.6	- 4.0	0	52	5	0.51	—	31.7†	—†	52†	—†
	Rothamsted	43	26	39.4	29.0	34.4	- 3.4	0	53	2	0.24	- 0.26	29.1	+ 16.1	48	+ 27
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	41	25	38.3	27.4	33.1	- 4.9	0	62	2	0.18	- 0.22	*	*	*	*
	Loughborough	42	25	39.6	28.4	34.2	- 4.0	0	55	3	0.24	- 0.22	*	*	*	*
	Colly Weston (Stamford)	42	25	38.6	28.7	33.9	- 3.7	0	57	3	0.33	—	*	*	*	*
	Cheadle	38	23	36.5	27.9	32.4	- 4.5	0	67	3	0.48	- 0.09	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	43	25	38.5	29.7	34.3	- 4.1	0	54	3	0.29	- 0.18	15.4	—	25	—
	Churchstoke	44	21	38.9	27.7	33.5	- 4.5	0	60	4	0.57	- 0.03	30.7	+ 10.5	51	+ 29
	Hereford	50	26	41.7	29.7	35.9	- 3.1	0	43	3	0.34	- 0.20	*	*	*	*
	Cirencester	47	23	40.7	28.0	34.6	- 3.3	0	52	2	0.33	- 0.30	26.8	+ 12.8	44	+ 21
	Oxford	49	27	41.3	30.1	35.9	- 3.0	0	43	3	0.22	- 0.22	29.8	+ 16.7	49	+ 23
5. ENGLAND, S.	London	47	30	40.7	32.0	36.5	- 3.0	0	39	2	0.19	- 0.24	17.9†	+ 10.4†	29†	+ 17†
	Swarraton (Alresford)	48	27	40.4	30.1	35.5	- 2.5	0	46	2	0.35	- 0.32	*	*	*	*
	Dungeness	50	28	41.7	31.7	36.9	- 2.6	0	36	4	0.63	+ 0.26	26.5	—	43	—
	Hastings (St. Leonards)	49	30	41.1	32.6	37.0	- 2.7	0	35	4	0.56	0.00	30.1	+ 13.8	49	+ 23
	Southampton	51	28	42.2	32.6	37.6	- 2.6	1	34	3	0.31	- 0.35	30.3	+ 15.8	49	+ 26
	Portland Bill	49	31	43.0	35.1	39.2	- 2.6	3	26	3	0.26	—	*	*	*	*
	Shaftesbury	46	25	39.2	29.5	34.5	- 3.7	0	53	3	0.54	- 0.13	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	35	17	33.4	21.4	27.6	-12.3	0	101	4	0.36	- 1.39	*	*	*	*
	Glasgow	38	15	33.5	23.4	28.7	-10.1	0	93	2	0.24	- 0.59	15.0	+ 7.1	26	+ 12
	Glenlee	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Douglas (Isle of Man)	43	26	40.9	30.2	35.8	- 4.8	0	48	4	0.47	- 0.43	29.6	+ 15.3	49	+ 25
7. ENGLAND, N.W.	Newton Reigny	40	16	36.3	22.4	29.6	- 6.6	0	87	3	0.33	—	22.4	—	39	—
	Stonyhurst	40	25	36.7	28.0	32.5	- 5.7	0	67	4	1.00	- 0.27	27.6	+ 16.8	46	+ 23
	Blackpool	43	23	40.9	28.1	34.8	- 3.9	0	50	3	0.27	- 0.34	29.9	+ 18.4	50	+ 31
	Manchester (Prestwich)	39	24	37.0	28.1	32.7	- 5.9	0	65	4	0.78	+ 0.14	21.9	—	37	—
	Liverpool Obs. (Bidston)	43	28	39.4	30.6	35.2	- 4.3	0	48	3	0.56	+ 0.10	20.2	—	34	—
	Chester	43	27	39.7	30.6	35.3	- 4.9	0	47	2	0.35	—	—	—	—	—
	Llandudno	46	32	41.9	34.4	38.3	- 3.3	0	26	5	0.47	- 0.10	19.7	+ 6.0	33	+ 11
	Holyhead	46	31	41.6	34.1	38.0	- 3.8	0	28	4	0.78	+ 0.12	*	*	*	*
8. ENGLAND, S.W.	Llandoverly	47	22	41.7	29.1	35.7	- 2.8	0	44	3	0.63	- 0.37	*	*	*	*
	Pembroke	49	31	43.7	36.0	40.0	- 2.4	5	23	4	0.73	- 0.03	32.6	+ 17.4	53	+ 29
	Clifton	47	28	41.6	32.0	37.0	- 3.2	0	35	3	0.87	+ 0.16	*	*	*	*
	Bath	49	29	42.3	31.4	37.1	- 3.5	1	39	4	0.73	—	26.4	—	43	—
	Arlington (N. Devon)	48	29	41.9	31.9	37.1	- 3.4	0	34	3	1.39	+ 0.39	—	—	—	—
	Cullompton	49	30	42.8	33.9	38.5	- 2.0	2	30	3	0.86	+ 0.13	28.1	+ 15.0	45	+ 24
	Falmouth	50	32	44.4	36.6	40.7	- 2.9	7	22	4	1.04	- 0.02	32.2	+ 16.2	51	+ 26
	Plymouth	50	32	44.9	37.0	41.1	- 1.3	8	21	4	0.52	- 0.28	31.2	+ 16.4	50	+ 27
9. IRELAND, N.	Malin Head	42	28	39.6	31.1	35.5	- 6.2	0	46	4	0.46	—	*	*	*	*
	Edenfel (Omagh)	39	21	36.6	26.6	31.3	- 6.6	0	71	2	0.45	- 0.27	*	*	*	*
	Blacksod Point	49	32	44.0	36.0	40.2	- 2.7	6	24	4	1.13	—	*	*	*	*
	Markree Castle	46	23	41.5	29.7	35.8	- 4.1	0	43	5	0.64	- 0.14	26.1	+ 13.5	44	+ 23
	Armagh	42	20	38.6	26.9	33.0	- 6.6	0	63	4	0.33	- 0.24	21.0	+ 8.2	35	+ 14
	Donaghadee	43	28	39.7	31.1	35.6	- 5.0	0	45	3	0.30	- 0.30	*	*	*	*
10. IRELAND, S.	Dublin	48	27	41.8	31.8	37.0	- 5.1	0	35	2	0.32	- 0.15	21.4	+ 6.0	36	+ 11
	Parsonstown	50	24	43.3	27.6	35.8	- 4.4	4	54	4	0.91	+ 0.31	28.9	+ 15.1	48	+ 25
	Kilkenny	49	24	43.1	30.1	36.9	- 4.5	3	45	2	0.55	- 0.15	*	*	*	*
	Roche's Point	50	32	44.7	34.7	39.9	- 3.6	8	29	2	0.21	- 0.37	*	*	*	*
	Valencia	51	30	46.9	36.1	41.7	- 2.8	14	25	4	0.56	- 0.77	29.4	+ 14.7	48	+ 24
	Killarney	?	25	?	31.3	?	?	?	?	3	0.83	- 0.46	*	*	*	*
	Foynes	50	25	44.8	33.3	39.3	- 2.3	8	34	2	0.37	+ 0.10	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	32	47.0	38.9	43.1	- 2.6	21	9	4	0.49	- 0.24	30.7	—	49	—
	Jersey	51	34	44.9	37.4	41.3	- 1.4	8	19	5	1.05	+ 0.39	30.1	+ 11.3	47	+ 13

Stations marked *gr* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of the Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Little's one-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 26th January.

Temperature and Weather.

8 a.m.

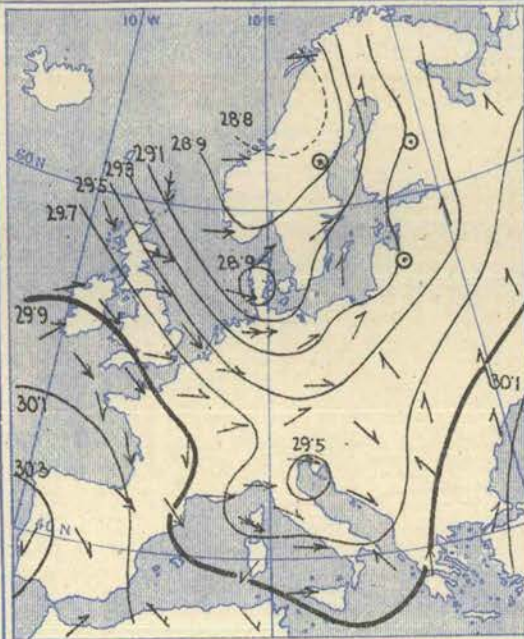


Weather in morning fine over the greater part of western Europe, but snow and hail squalls reported on our own extreme north and north-west coasts. Cloudy or dull in the northern, eastern, and central countries, with rain at Breslau, and snow in the west of Norway; rain falling also at several of the Italian stations. Snow or sleet occurring later over nearly the whole of our Islands and the northern and central parts of the Continent, and rain in France and southern Italy.

Temperature fallen over Europe as a whole, but risen in the south-west of our Islands, and the north-west of France. Morning readings highest, 56° at Malta, 55° at Patras and Algiers, and 54° at Nemours and Oren; above 50° at several of the Mediterranean stations. Lowest (1) 14° at Archangel; (2) 24° at Naim, and 25° at Stornoway and Aberdeen; below the freezing point in most parts of Great Britain. Frost continuing in the north of Scotland all day, and thermometer remaining below 40° at all our own northern, eastern, and central stations; rising to between 45° and 50° on our extreme west and south-west coasts, and reaching 51° at Valencia (Ireland) and Scilly.

Barometer and Wind.

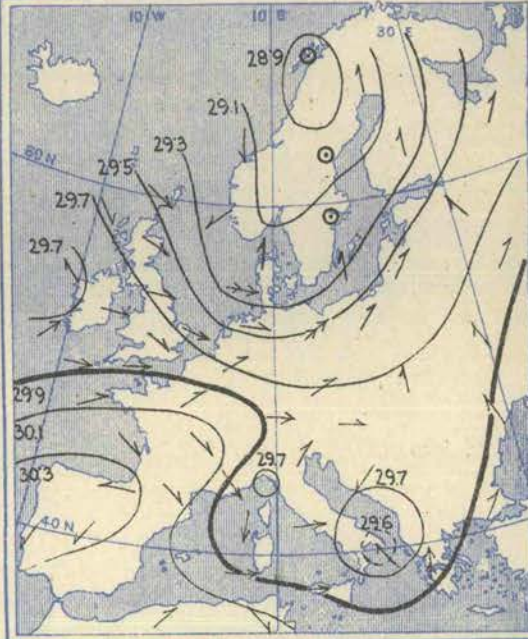
8 a.m.



Wind North-Westerly over our Islands, France, and the Netherlands; strong in force in many places, and blowing a gale in the north of Scotland; Westerly or South-Westerly over Germany, Denmark, and the south of Scandinavia; Southerly in Sweden and Russia; Easterly in the north of Norway; Westerly over Italy and the Adriatic, and Southerly in Greece; Northerly over the Spanish Peninsula. Subsequently shifting to the Southward (South-West to South-East) in the west of Ireland; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards in Portugal; 30.1 ins. and upwards in the south of Russia. Lowest, 28.9 ins. and less in a cyclonic system lying off the northern part of the Norwegian coasts; 28.9 ins. and less in a well-marked secondary disturbance over Denmark. Main disturbance subsequently moving eastwards across the north of Scandinavia; secondary system rapidly dispersing. New cyclonic system advancing over our Islands from the westward.

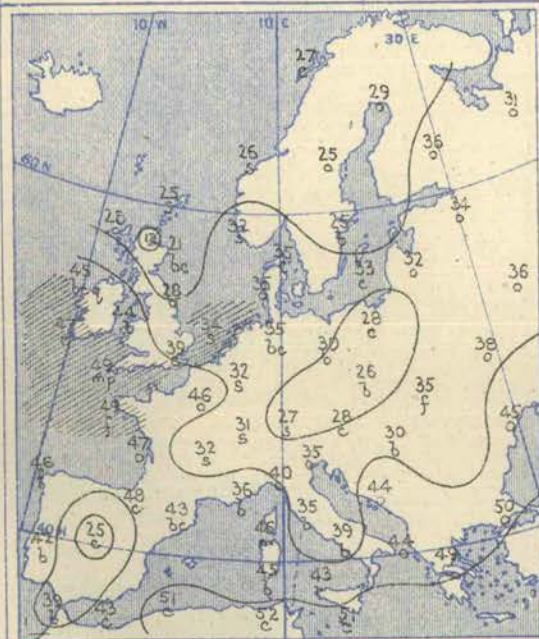
6 p.m.



Monday, 27th January.

Temperature and Weather.

8 a.m.

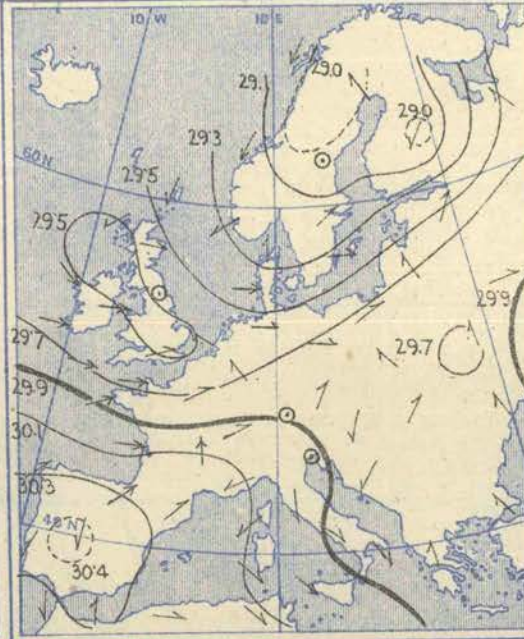


Weather in morning fair or fine at most of the Irish and Scotch stations, and also over the south of Sweden and the greater part of southern Europe; cloudy or dull elsewhere, with rain or sleet in many parts of England, and with snow in the Shetlands and the west of Norway, as well as in south Germany and central France. Rain or snow falling later over nearly the whole of Europe; amounts of rain large in some parts of central France.

Temperature risen over England, Ireland, and France, but fallen in most other countries. Morning readings highest (1) 52° at La Calle, and 51° at Malta and Algiers; (2) 50° at Jersey and Lorient, and 49° at Erzer; above 45° on many parts of our own south and south-west coasts. Lowest, 12° at Naim, 21° at Aberdeen, and 24° at Wick; below the freezing point over the northern and central parts of Great Britain and the Continent generally. Rising during day to between 45° and 50° in the west and south of our Islands, but remaining below 35° in the north of Scotland; maximum reading at Sumburgh Head only 27°.

Barometer and Wind.

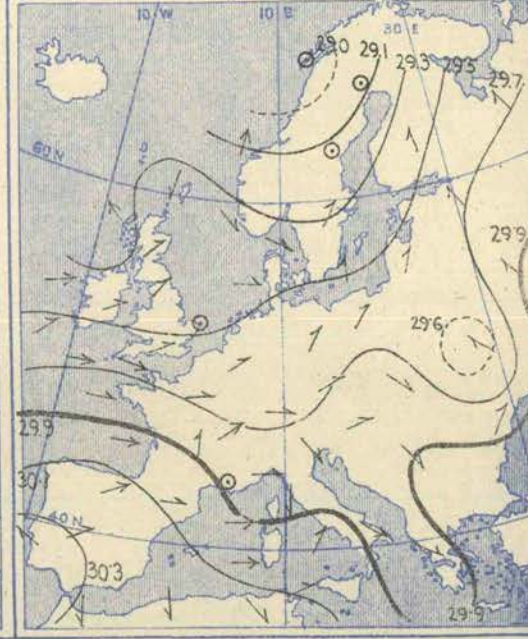
8 a.m.



Wind fresh to strong from the Westward in the west and south of our Islands, and the north and west of France; Easterly or South-Easterly in the north of Ireland, and the north and east of England; Northerly or North-Easterly in the north of Scotland, and the west of Norway; Westerly in Denmark; South-Westerly in Germany; Southerly or South-Easterly over northern Russia; Westerly or North-Westerly in Italy; variable over the Spanish Peninsula. Subsequently backing to the South-Westward in Ireland, but shifting to the South-Eastward in the east of England.

Barometer highest, 30.4 ins. and upwards over central Spain; 30.2 ins. and upwards in an anticyclone lying over France and Algeria; 30.0 ins. and upwards in another system over the south of Russia. Lowest, 29.0 ins. and less in a cyclonic disturbance over the north of Scandinavia; 29.4 ins. and less in a complex depression lying over the United Kingdom. Latter system dispersing gradually during day, but new disturbance advancing over Scotland from the westward in evening.

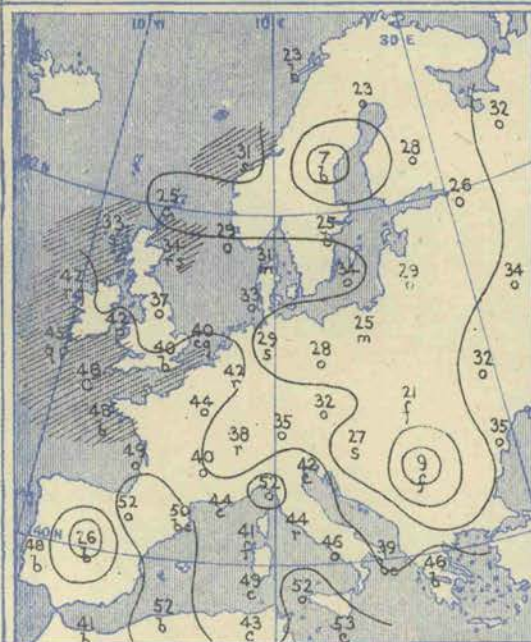
6 p.m.



Tuesday, 28th January.

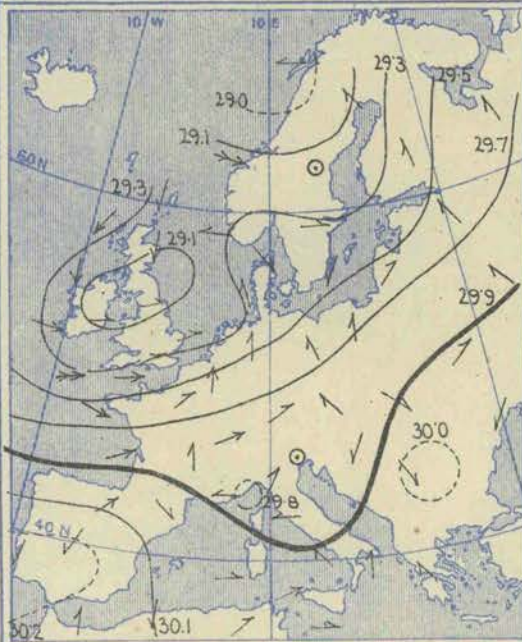
Temperature and Weather.

8 a.m.

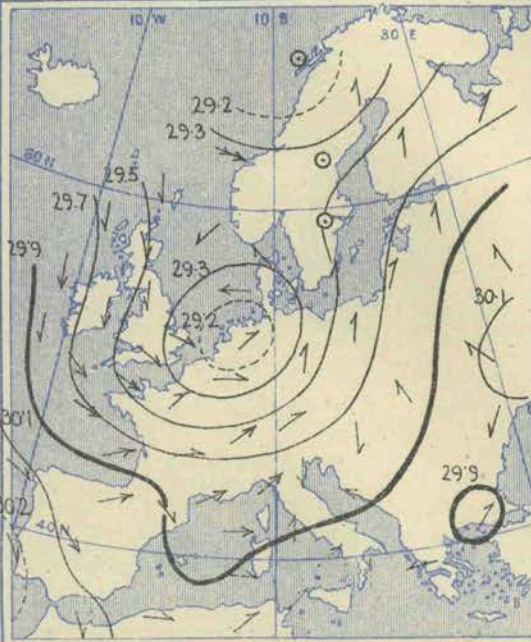


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very unsettled over our Islands generally, with rain or passing showers at most of our western and southern stations, and with snow in Scotland, as well as at Christiansund, Cuxhaven, and Helsingfors. Cloudy or dull at most of the Continental stations, with rain at several of the Italian and French stations, but fine and bright over Spain and Algeria. Snow showers later in many parts of the United Kingdom, and also over northern and central Europe, and thunder and lightning at Jersey.

Temperature fallen at our own western stations, and also at many of the Scandinavian and Russian stations, but risen in most other places—quickly in Scotland. Morning readings highest, 53° at Malta, 52° at Palermo, Biarritz, Algiers, and Perpignan, 50° at Barcelona, 49° at Rochefort, and 48° at Scilly and Brest. Lowest (1) 9° at Hernösand, 18° at Cracow, and 21° at Lemberg; (2) 7° at Hernösand, 14° at Karlstad, 23° at Bodö and Haparanda, and 25° at Sumburgh Head. Rising during day to 49° at Scilly and Jersey, to above 50° in many parts of France and Italy, and reaching 60° at Palermo, and 68° at Perpignan.

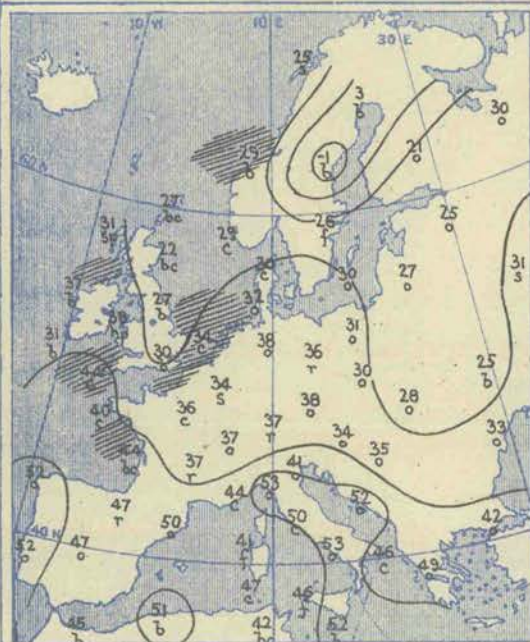
Wind showing a decided cyclonic circulation over our Islands and the North Sea, being Westerly or South-Westerly (with a gale at Scilly) over England, France, and the Channel. Southerly light over the Netherlands, Germany, and Denmark, and strong from the Northward or North-Eastward in Scotland, chiefly Westerly or Southerly at the Continental stations. Wind shifting to the Northward later over our Islands, and blowing strongly at our northern and western stations.

Barometer highest, 30.2 ins. and upwards over Spain, and 30.0 ins. and upwards over eastern Austria. Lowest, 29.0 ins. off the coast of Finmark, and also in another disturbance lying over the south of Scotland, and the northern part of England and Ireland. Depression over our Islands moving later to the Netherlands; no change of importance elsewhere.

Wednesday, 29th January.

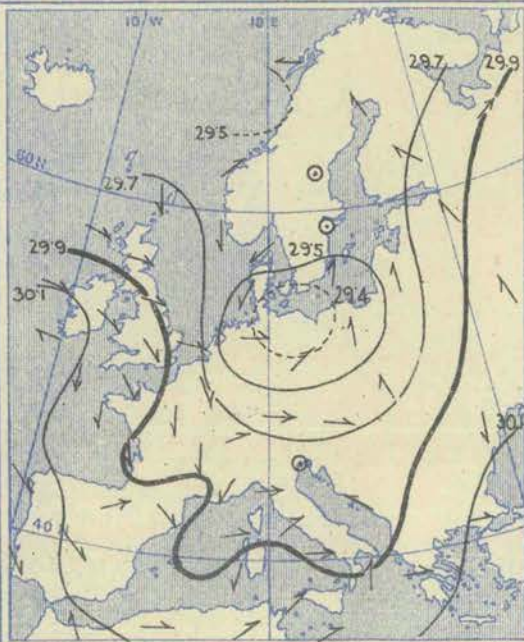
Temperature and Weather.

8 a.m.

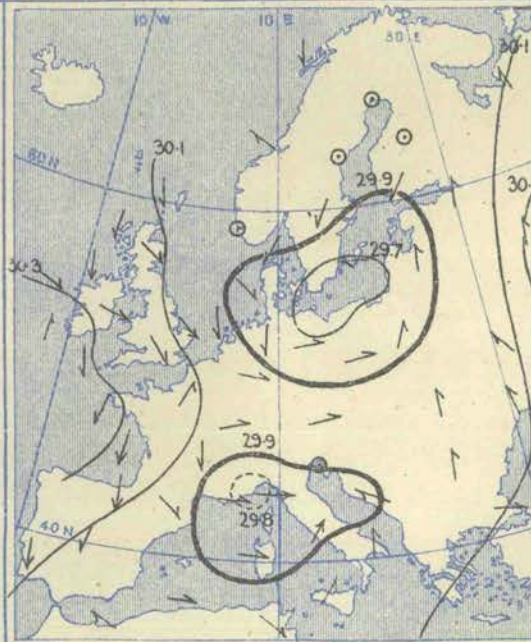


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in most parts of our Islands, Algeria, and in some Scandinavian districts, but showers of rain, hail, or sleet prevailing at some of our western and north-western stations, and snow at Bodö. Cloudy or dull over Europe as a whole, with rain at Biarritz, Berlin, and Cracow, and snow at St. Petersburg, Memel, and Hangö. Light snow or rain experienced later in most parts of our Islands and central Europe, and rain in the south-west of France, as well as at some Italian and Algerian stations.

Temperature risen decidedly over southern and central Europe, and fallen equally decidedly over the United Kingdom, France, and northern Europe. Readings at 8 a.m., ranging from 53° at Leghorn, and 52° at Malta, Lisbon, and Corunna, to between 38° and 22° in most parts of our Islands, to 7° at Karlstad, 8° at Haparanda, and -1° at Hernösand. Rising during day to 54° at Nice, and to between 55° and 61° over southern Italy, and 60° at Algiers. Not much exceeding the freezing point over central France, and remaining below it over northern Europe and in Scotland.

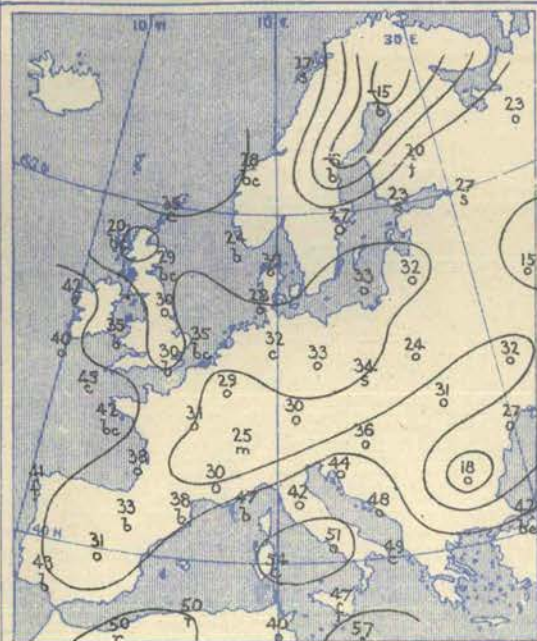
Wind in morning showing a complete cyclonic circulation around a low pressure system situated over north Germany. Current generally light or moderate in force, but the North-Westerly and Westerly winds over our Islands and the Netherlands blowing freshly or strongly. Not much change over Europe as a whole during day, but force decreasing at our own stations, and a fresh cyclonic circulation of moderate winds appearing in the neighbourhood of the Gulf of Genoa and Italy.

Barometer at 8 a.m. highest, 30.1 ins. and upwards over Ireland, and the western parts of the Spanish Peninsula, and also over the Black Sea and its neighbourhood. Lowest, 29.4 ins. and less in a cyclonic system over north Germany, and below 29.5 ins. off the north-west coast of Norway. German low pressure subsequently moving somewhat north-eastwards, and another cyclonic system forming over the Gulf of Genoa.

Thursday, 30th January.

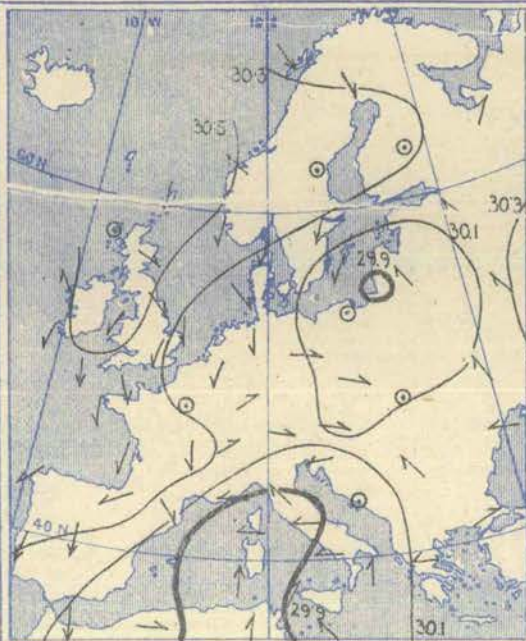
Temperature and Weather.

8 a.m.

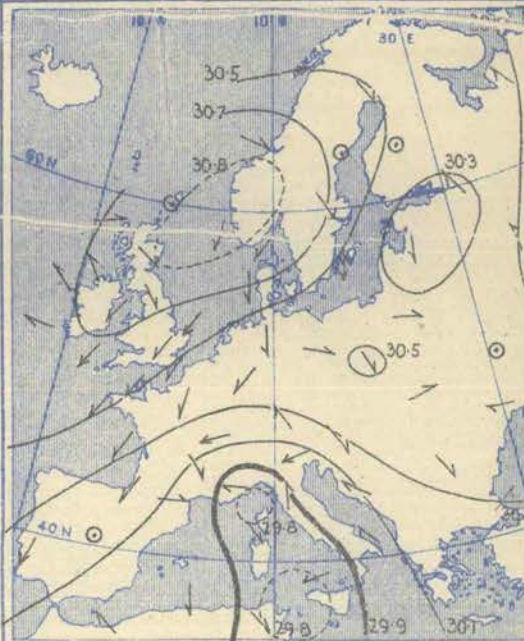


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in most regions, with rain at some Algerian stations, and at Rome, and snow at Bodö, Frankfurt, Breslau, and in the Gulf of Finland. Fine and bright over our Islands, many parts of Scandinavia and France, as well as at Constantinople and Athens. Rain or snow later in a few parts of the United Kingdom and northern Europe, and heavy rain over the south of France, and also at some Italian and Algerian stations.

Temperature fallen many degrees over Europe as a whole, but risen at a few of our own stations. Readings at 8 a.m. highest, 57° at Malta, 54° at Palermo, and 52° at Patras. Lowest—15° at Haparanda, -6° at Hernösand, +15° at Moscow, 18° at Hermanstadt, 20° in several parts of Scotland, 31° at Madrid, and 32° at Aumale (inland Algeria). Rising subsequently to between 32° and 33° in most parts of our Islands, to 50° at Nice, and to 61° at Palermo and Malta. Remaining much below 32° over northern Europe, and rising to very little above it in many central districts.

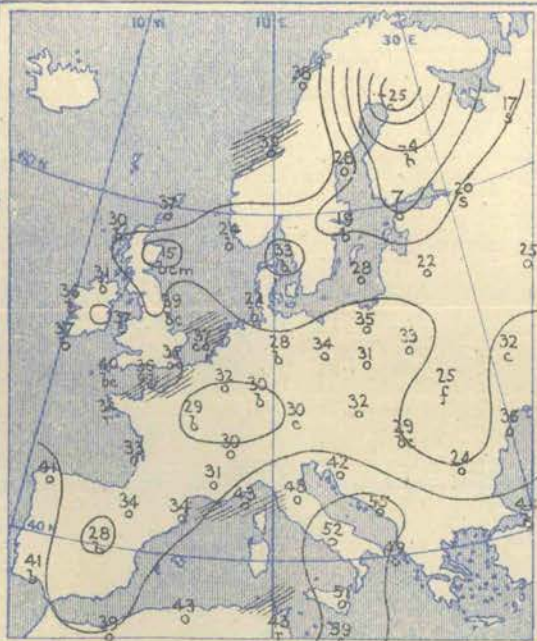
Wind in morning circulating with varying force around two distinct baric minima—one near Memel, the other over Sardinia, Corsica, and their neighbourhood. Both circulations increasing in force during day; a fresh Northerly gale setting near in the Gulf of Bothnia, and wind increasing to fresh or strong breeze from North-East over our Islands and France.

Barometer risen in most places, very quietly in the north, but fallen a little on the southern shores of the Mediterranean. Readings at 8 a.m. highest, 30.4 ins. to 30.5 ins. over the Bay of Biscay, the United Kingdom, and the west of Norway. Lowest, 29.9 ins. in a cyclonic system near Memel, and also in another over the western part of the Mediterranean. Northern low pressure area moving eastwards and filling up later, and that in the south becoming complex and rather deeper. Barometer continuing to rise in the north, and beginning to fall in the south of France.

Friday, 31st January.

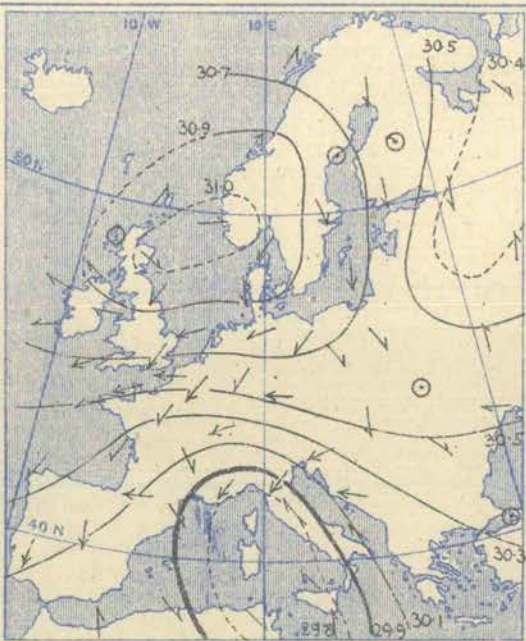
Temperature and Weather.

8 a.m.

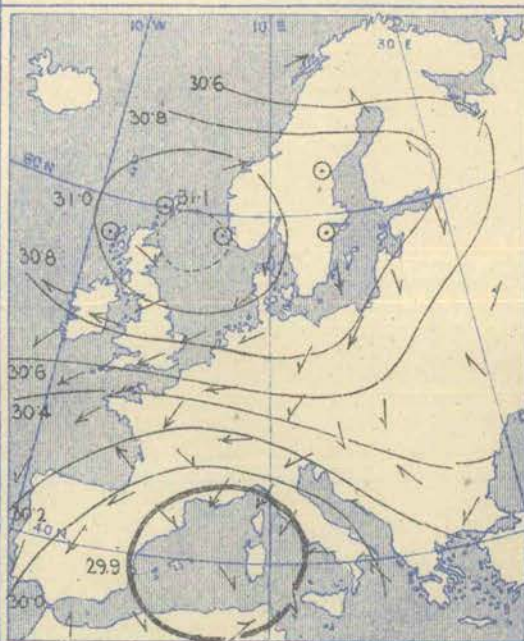


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in many parts of our Islands, Finland, Scandinavia, and Spain; cloudy or dull elsewhere, with rain at Brest, Cape Sicé, and in eastern Algeria, and snow at St. Petersburg and Archangel. Heavy rain falling later over Italy and the south of France, and some snow in different parts of central Europe and Russia.

Temperature changed very erratically over our Islands and northern Europe. Readings at 8 a.m. highest, 59° at Malta, 55° at Lesina, and 52° at Rome. Lowest—25° at Haparanda, -4° at Kuopio, +7° at Hangö, 20° at St. Petersburg, 24° at Hermanstadt, 28° at Madrid, and 29° at Paris. Lowest in the United Kingdom, 15° at Nairn and Aberdeen, and 21° at Leith. Rising subsequently to between 52° and 56° over Italy, and to 63° at Malta, but not touching 50° over the south of France. Remaining much below 32° over northern Europe, as well as in some parts of Germany and Austria.

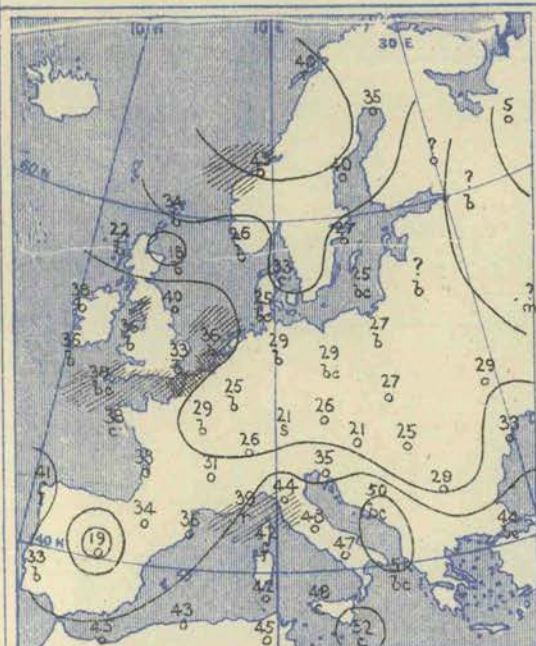
Wind over the southern parts of Europe and the south of England circulating round a cyclonic disturbance over the Mediterranean; fresh or strong North-East over the Riviera, the greater part of France, and over our own southern districts, and strong South-East or East in the Adriatic. Light and anticyclonic over northern Europe generally. Increasing in force in most places during day—to a strong North-Easterly gale in the English Channel, and to a moderate gale in the south of France.

Barometer at 8 a.m. highest, above 31.0 ins. over the north-east of Scotland, the northern portion of the North Sea, and the south-west of Norway, and above 30.7 ins. over north-western Europe as a whole. Lowest, 29.8 ins. and less in a large low pressure system having its centre over Sardinia and Corsica. Barometer rising as high as 31.10 ins. in the centre of the anticyclone during day, but falling decidedly over France and our south-western coasts.

Saturday, 1st February.

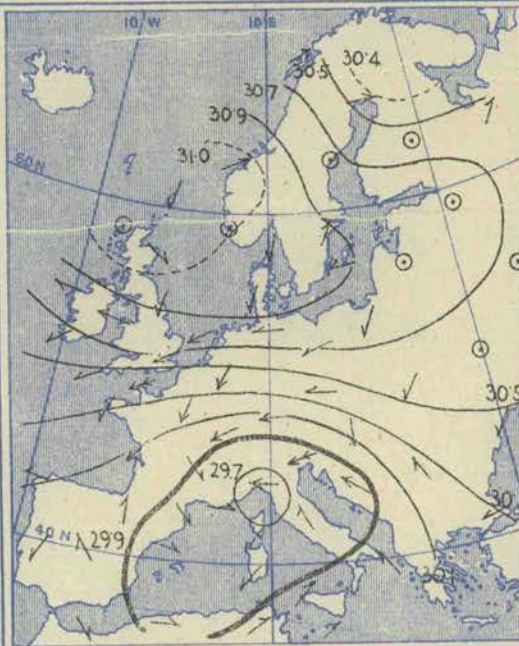
Temperature and Weather.

8 a.m.

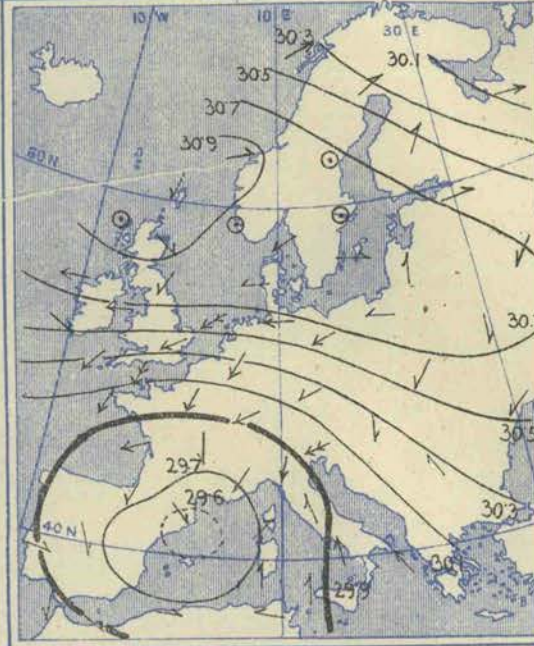


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western Europe generally, but dull on the north-east coasts of Great Britain. Dull over the northern, eastern, and southern parts of the Continent: rain falling in the extreme south of France, and some parts of northern Italy, as well as at Bodö, and snow in Austria and south Germany; snow reported also at Bilbao. Considerable quantities of rain falling later in the extreme south of France, and snow in northern Italy.

Temperature risen in Ireland and the east of Scotland, as well as in Scandinavia, fallen in most other localities. Morning readings highest, 52° at Malta, 51° at Brindisi, 50° at Lésina, and 45° at Rome; above 40° at most of the Mediterranean stations. Lowest (1) 5° at Archangel, and 19° at St. Petersburg; (2) 10° at Nairn, 12° at Wick, and 19° at Aberdeen; (3) 20° at Breslau, and 21° at Cracow and Munich. Daily maxima below 40° at most of our own northern and eastern stations, and also over central and southern France. Thermometer exceeding 45° in Spain, exceeding 50° in southern Italy, and reaching 62° at Palermo.

Wind Easterly or North-Easterly over Ireland, England, and all but the extreme northern and southern parts of the Continent—strong in many places, and blowing a gale in the English Channel. Calm in the north of Scotland, and also at many of the Russian stations; South-Westerly in the west of Norway; Westerly in Algeria, and South-Westerly in Tunis and southern Italy. Subsequently increasing to a gale from the North-Eastward on the east coasts of England; no important change occurring elsewhere.

Barometer highest, 31.0 ins. and upwards in the north of Scotland, and the south-west of Norway 30.5 ins. and upwards in an anticyclone covering the whole of our Islands, and the northern parts of the Continent. Large area of low pressure lying over the Mediterranean and southern Europe, with barometric minima (29.7 ins. and less) over the Gulf of Genoa and northern Italy. Anticyclone giving way gradually during day, and low pressure system over Mediterranean extending slowly northwards.

GENERAL NOTES.

During the early part of the week two high pressure systems were in existence—one lying over and to the westward of the Spanish Peninsula, and the other over the south of Russia. In our Islands and the northern parts of the Continent the weather was affected by cyclonic areas, which arrived from the Atlantic, and which passed in the first case over the northern parts of Scandinavia, and afterwards directly over the United Kingdom. On January 26th, when a well-marked secondary disturbance appeared over Denmark, the wind blew with the force of a strong gale from North and North West in Scotland, the passage of some primary systems across our Islands later being marked by gales or very strong winds from various quarters on many parts of our coasts, with frequent falls of snow in the north.

After January 29th an anticyclone of considerable size and of increasing intensity spread over our Islands and Scandinavia from the westward, the barometer in the north rising quickly, ultimately reaching an exceptionally high level. On the afternoon and evening of January 31st, the mercury in the east of Scotland and the south-west of Norway stood at 31.1 ins., or slightly above it, the highest reading reported being 31.1 ins. at Aberdeen and Skudenes. A large area of low pressure was in the meantime extending slowly northwards from the Mediterranean, so that the barometric gradient over our southern districts became steep, and by the close of the week a strong gale from the eastward and north-eastward was blowing in the Channel and on the east coasts of England.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 26.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	25.0	+ 15.5	46	+ 29	BRIGHTON	30.2	+ 15.5	49	+ 26
STRATHPEFFER SPA	24.7	+ 13.9	45	+ 26	WORTHING	31.4	—	51	—
EDINBURGH	11.7	+ 1.4	21	+ 8	BOGNOR	34.6†	—	56†	—
MORPETH	23.5	—	41	—	WATERGATE (Emsworth)	32.1	—	52	—
NEWCASTLE-ON-TYNE	14.4	—	25	—	WESTBOURNE (Emsworth)	30.9†	+ 15.5	50	+ 26
OSWALDKIRK (Yorkshire)	—	—	—	—	VENTNOR HOSPITAL	30.4	+ 15.5	49	+ 25
YORK	23.9	+ 18.9	43	+ 31	BOURNEMOUTH	32.0	—	52	—
LOWESTOFT	23.3	—	46	—	SOUTHPORT	27.0	—	45	—
HOLLESLEY BAY	34.6	—	67	—	RHYL	—†	—	—†	—
SHEFFIELD	18.3	—	31	—	COLWYN BAY	—	—	—	—
WORKSOP	26.4	+ 15.7	43	+ 25	ABERDOVEY	32.6*	—	54	—
THURCASTON (Leicestershire)	23.2	+ 16.5	47	+ 23	TENBY	—	—	—	—
MARGATE	25.3	+ 11.9	41	+ 20	NEWQUAY	27.1	+ 11.5	43	+ 18
BROADSTAIRS	—	—	—	—	TORQUAY	31.4	+ 16.1	50	+ 26
EASTBOURNE	29.0	+ 14.3	47	+ 24	CAHIR (Dunake)	23.0†	—	38†	—
					GUERNSEY	19.4†	+ 3.0	30†	+ 4

† The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 6.]
Fourth Series.

WEEK ENDING SATURDAY, FEBRUARY 8TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS, (See p. 32.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	8	38.2	26.3	32.3	6 below	Day-deg. 0	Day-deg. - 7	Day-deg. 68	Day-deg. +32	Day-deg. 31	Day-deg. - 7	Day-deg. 287	Day-deg. + 72
	1. SCOTLAND, EAST	44	8	37.3	27.1	32.2	5 below	0	- 9	69	+28	39	- 8	292	+ 41
	2. ENGLAND, N.E.	42	27	38.1	32.4	35.3	3 below	0	- 9	47	+12	77	+ 29	167	- 49
	3. ENGLAND, EAST	44	24	36.5	30.3	33.4	5 below	0	-10	60	+21	85	+ 34	178	- 63
	4. MIDLAND COUNTIES	43	22	35.9	29.5	32.7	6 below	0	-12	65	+27	83	+21	188	- 59
	5. ENGLAND, SOUTH	46	27	36.9	31.6	34.3	6 below	0	-14	54	+25	86	+ 10	133	- 56
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	44	22	38.8	29.9	34.4	5 below	0	- 9	53	+24	66	+ 6	178*	+ 1
	7. ENGLAND, N.W.	42	22	37.4	32.1	34.8	5 below	0	-11	50	+22	68	+ 7	145	- 31
	8. ENGLAND, S.W.	48	20	37.9	30.9	34.4	7 below	0	-17	53	+31	106	+ 9	122	- 14
	9. IRELAND, NORTH	46	24	39.7	33.4	36.5	4 below	0	-14	39	+14	67	- 14	128	- 25
	10. IRELAND, SOUTH	46	28	40.8	34.0	37.4	5 below	0	-22	32	+13	107	- 19	94	- 26
	—CHANNEL ISLANDS—	48	31	42.4	35.0	38.7	6 below	1	-24	25	+16	177	+ 30	39	- 19

Rainfall.

Bright Sunshine.

DISTRICTS. (See p. 32.)		Rainfall.							Bright Sunshine.							
		For the Week.			From December 29th, 1901.				For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Differ- ence from Mean.	Total fall.	Differ- ence from Mean.	Hours recorded.	Differ- ence from Mean.	Percent- age of possible Duration.	Differ- ence from Mean.	Hours recorded.	Differ- ence from Mean.	Percent- age of possible Duration.	Differ- ence from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 6	10ths of in. 5 less	33	+ 4	Ins. 7.9	+ 0.6	14	+ 2	23	+ 4	52	+ 8	17	+ 3
	1. SCOTLAND, EAST	3	2	4 less	22	- 1	2.3	- 1.5	9	- 6	14	- 10	57	- 7	18	- 2
	2. ENGLAND, N.E.	3	3	1 less	17	- 5	1.7	- 0.9	9	- 6	15	- 9	59	- 7	16	- 2
	3. ENGLAND, EAST	3	2	3 less	18	- 6	1.4	- 1.2	4	- 12	6	- 19	80	- 4	20	- 1
	4. MIDLAND COUNTIES	3	2	3 less	17	- 5	1.9	- 1.3	5	- 9	8	- 14	57	- 2	19	0
	5. ENGLAND, SOUTH	4	3	3 less	17	- 6	2.0	- 1.5	5	- 11	9	- 17	71	- 9	19	- 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	6	6 less	27	0	6.1	- 1.2	12	- 1	19	- 1	57	0	17	0
	7. ENGLAND, N.W.	2	3	3 less	23	- 1	3.4	- 0.7	6	- 6	9	- 10	61	+ 1	18	0
	8. ENGLAND, S.W.	3	2	6 less	22	- 4	3.4	- 2.1	10	- 6	16	- 8	63	- 12	19	- 4
	9. IRELAND, NORTH	2	6	1 less	26	- 1	4.4	+ 0.2	6	- 8	9	- 13	52	- 15	15	- 5
	10. IRELAND, SOUTH	3	3	5 less	21	- 6	3.4	- 2.2	15	+ 1	24	+ 1	68	- 12	20	- 3
	- CHANNEL ISLANDS	4	6	1 less	23	- 4	3.1	- 1.4	10	- 11	15	- 17	63	- 38	15	- 10

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was fair in most parts of the Kingdom during the earlier half of the week but subsequently became less settled, until by Saturday snow had become very general in all the northern districts and sleet or cold rain in the south. The snowfall in some of the northern districts of Great Britain and Ireland was very heavy.

Temperature was again below the mean, the deficit ranging from 3° in England N.E. and 4° in Ireland N. to 6° in the Midland Counties, England S., the Channel Islands, and Scotland N., and to 7° in England S.W. The highest of the maxima were recorded on rather irregular dates. They varied from 48° in England S.W. and the Channel Islands to 42° in England N.E. and N.W. At many northern, central and eastern stations the daily maxima were frequently below 36°. The lowest of the minima were registered either at the beginning or end of the period. They varied from 8° in Scotland E. and in Scotland N. (at Nairn and Lairg on Sunday) to 20° in England S.W., 28° in Ireland S., and 31° in the Channel Islands.

Rainfall was less than the mean in all districts. Some of the amounts yielded by the snow were large—especially in the north of Ireland. At Edenfel there was as much as 0.92 inch, and at Armagh 1.02 inches.

Bright Sunshine was much less than the normal over the Kingdom as a whole, but exceeded

it in Scotland N. and Ireland S. The percentage of the possible duration ranged from 24 in the latter district and 23 in the former to 9 in England S. and N.W. and in Ireland N. and to 6 in England E.

Barometer and Wind.—The distribution of pressure changed frequently; at first an anticyclone lay to the northward of our Islands, and as the barometer was much lower to the southward, gales or strong winds from E. or N.E. were very general. As the week progressed however, the high pressure area moved slowly to Central Europe, and at the same time became greatly reduced in intensity. During the latter half of the week two or three shallow disturbances appeared in different parts of our Islands or their immediate neighbourhood, the chief systems being an irregularly V shaped system in the north and another which came over our south-western and southern coasts and the north of France from the Bay of Biscay. By Saturday morning the centre of a well marked, but not deep, disturbance had reached the Irish Sea from south-westward, and during the rest of the day moved eastwards across England. This system caused a complete cyclonic circulation of wind over our Islands, and much snow, sleet, or rain.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.										
								Above 42°	Below 42°		Inches.	Inches.				
O. SCOTLAND, N	Sumburgh Head	43	24	39.4	30.6	35.0	- 3.6	0	49	4	0.43	- 0.36	*	*	*	*
	Stornoway	45	20	40.3	28.0	34.2	- 4.7	0	55	5	0.93	- 0.07	17.1	+ 4.1	29	+
	Wick	44	10	37.9	25.9	31.9	- 5.8	0	71	6	0.59	+ 0.09	*	*	*	*
	Laing	41	8	39.1	21.6	30.4	- 5.0	0	81	5	0.45	- 0.31	*	*	*	*
	Glencarron	40	15	36.2	26.2	31.2	- 5.8	0	76	3	0.95	- 0.89	*	*	*	*
	Fort Augustus	41	15	37.3	24.4	30.9	- 7.1	0	78	5	0.48	- 0.50	11.9	+ 3.3	20	+ 6
	Fort William	42	21	37.3	27.3	32.3	- 6.5	0	68	3	0.36	- 1.63	21.7	+ 10.7	36	+ 18
1. SCOTLAND, E.	Nairn	41	8	37.3	25.3	31.3	- 6.4	0	75	4	0.47	+ 0.08	*	*	*	*
	Aberdeen	42	19	37.1	29.3	33.2	- 4.8	0	62	4	0.17	- 0.38	12.0	- 4.8	20	- 7
	Braemar	37	10	33.9	20.9	27.4	- 7.1	0	102	2	0.03	- 0.65	*	*	*	*
	Ochertyre	42	20	38.7	27.1	32.9	- 4.5	0	64	3	0.10	- 0.84	*	*	*	*
	Leith	44	28	39.3	32.0	35.7	- 3.7	0	44	4	0.13	- 0.24	*	*	*	*
	Marchmont	40	24	37.7	28.1	32.9	- 4.0	0	64	3	0.20	- 0.40	5.0	- 10.0	8	- 16
2. ENGLAND N.E.	Alnwick Castle	42	28	38.0	33.0	35.5	- 2.5	0	46	4	0.32	- 0.22	*	*	*	*
	Durham	41	27	37.3	31.5	34.4	- 3.2	0	53	3	0.32	- 0.08	10.5	- 4.4	17	- 7
	Shields	42	30	38.9	33.4	36.2	- 2.6	0	41	3	0.32	- 0.05	*	*	*	*
	Scarborough	40	27	38.3	31.7	35.0	- 3.7	0	49	2	0.27	- 0.16	6.2	—	10	—
	Spurn Head	40	30	38.0	32.3	35.2	- 3.3	0	48	3	0.16	- 0.17	*	*	*	*
	Fulbeck (Lincolnshire)	42	?	40.0	?	?	?	?	?	3	0.57	+ 0.20	*	*	*	*
3. ENGLAND, E.	Hillington	39	24	36.9	29.8	33.4	- 4.5	0	60	2	0.16	- 0.24	3.7	- 12.1	6	- 19
	Yarmouth	40	30	36.6	31.0	33.8	- 4.2	0	57	3	0.09	- 0.31	*	*	*	*
	Geldeston	44	29	37.1	31.0	34.1	- 4.6	0	55	3	0.11	- 0.24	2.5	- 14.2	4	- 21
	Cambridge	41	25	36.2	29.4	32.8	- 5.7	0	64	2	0.11	- 0.22	4.1	- 11.9	6	- 19
	Felixstowe	41	32	37.4	32.4	34.9	- 3.8	0	50	4	0.30	—	6.4†	—†	10†	—†
	Rothamsted	38	25	34.7	27.9	31.3	- 6.5	0	75	4	0.15	- 0.35	3.8	- 11.2	6	- 17
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	38	24	36.0	30.1	33.1	- 5.2	0	62	3	0.11	- 0.27	*	*	*	*
	Loughborough	40	25	36.4	30.6	33.5	- 5.0	0	60	3	0.41	- 0.05	*	*	*	*
	Colly Weston (Stamford)	39	25	35.7	29.4	32.6	- 5.1	0	66	3	0.33	—	*	*	*	*
	Cheadle	38	27	34.9	29.7	32.3	- 4.9	0	68	4	0.32	- 0.25	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	39	27	35.3	30.1	32.7	- 5.8	0	65	4	0.24	- 0.22	3.7	—	6	—
	Churchstoke	38	22	35.2	28.9	32.1	- 6.2	0	69	3	0.08	- 0.52	5.8	- 10.1	9	- 15
5. ENGLAND, S	Hereford	43	22	36.6	28.6	32.6	- 6.7	0	66	2	0.10	- 0.41	*	*	*	*
	Cloucester	40	24	36.9	28.4	32.7	- 5.5	0	65	2	0.09	- 0.53	6.7	- 9.5	10	- 15
	Oxford	41	27	35.7	29.6	32.7	- 6.3	0	65	3	0.20	- 0.23	*	*	*	*
	London	40	31	37.3	32.4	34.9	- 4.9	0	50	3	0.18	- 0.25	1.4†	- 7.2†	2†	- 11†
	Swarraton (Alresford)	40	27	34.9	29.7	32.3	- 6.1	0	68	3	0.15	- 0.51	*	*	*	*
	Dungeness	43	31	38.3	33.3	35.8	- 4.0	0	43	5	0.54	+ 0.19	3.8	—	6	—
6. SCOTLAND, W.	Hastings (St. Leonards)	43	30	37.3	32.7	35.0	- 4.9	0	49	6	0.65	+ 0.11	2.0	- 16.5	3	- 25
	Southampton	46	30	38.4	31.7	35.1	- 5.5	0	48	4	0.18	- 0.45	9.3	- 7.5	15	- 10
	Portland Bill	44	32	38.0	33.0	35.5	- 6.7	0	46	4	0.17	—	*	*	*	*
	Shaftesbury	40	28	34.3	28.6	31.5	- 7.0	0	74	4	0.17	- 0.50	*	*	*	*
	Laudale (Loch Sunart)	42	22	38.4	26.3	32.4	- 7.3	0	67	3	0.68	- 1.02	*	*	*	*
	Glasgow	41	24	37.6	32.1	34.9	- 3.9	0	50	3	0.10	- 0.71	2.8	- 6.7	5	- 10
7. ENGLAND, N.W.	Glenlee	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Douglas (Isle of Man)	44	26	40.4	31.2	35.8	- 4.9	0	43	2	0.90	+ 0.03	20.7	+ 5.0	33	+ 8
	Newton Reigny	40	23	36.7	29.0	32.9	- 3.6	0	64	3	0.23	—	8.9	—	15	—
	Stonyhurst	40	22	36.3	30.9	33.6	- 4.7	0	59	2	0.14	- 0.72	9.9	- 2.8	16	- 4
	Blackpool	42	31	38.6	32.2	35.4	- 3.6	0	46	2	0.35	- 0.24	10.0	- 3.5	16	- 5
	Manchester (Prestwich)	38	30	36.2	31.7	34.0	- 4.6	0	56	3	0.48	- 0.12	5.5	—	9	—
8. ENGLAND, S.W.	Liverpool Obs. (Bidston)	40	30	36.4	32.6	34.5	- 5.2	0	53	2	0.47	+ 0.02	0.2	—	0	—
	Chester	39	29	37.4	33.0	35.2	- 5.2	0	48	1	0.04	—	*	*	*	*
	Llandudno	42	30	36.5	33.3	36.4	- 5.3	0	39	2	0.35	- 0.20	2.7	- 12.9	4	- 20
	Holyhead	41	33	38.4	34.0	36.2	- 5.6	0	41	2	0.44	- 0.20	*	*	*	*
	Llandovery	43	20	38.0	29.1	33.6	- 6.1	0	59	1	0.02	- 0.98	*	*	*	*
	Pembroke	43	32	38.0	33.1	35.6	- 6.7	0	45	2	0.33	- 0.37	9.1	- 7.9	14	- 12
9. IRELAND, N.	Clifton	39	27	36.4	30.2	33.3	- 7.1	0	61	4	0.17	- 0.50	*	*	*	*
	Bath	42	27	37.6	30.3	34.0	- 6.8	0	56	3	0.10	—	2.7	—	4	—
	Arlington (N. Devon)	41	24	36.4	28.7	32.6	- 7.9	0	66	3	0.25	- 0.73	*	*	*	*
	Cullompton	46	25	37.3	30.0	33.7	- 6.9	0	58	3	0.22	- 0.52	10.6	- 4.4	17	- 6
	Falmouth	47	30	39.7	32.8	36.3	- 7.4	0	40	4	0.49	- 0.52	13.5	- 4.9	21	- 7
	Plymouth	48	31	39.7	33.1	36.4	- 6.1	0	39	2	0.14	- 0.62	10.3	- 6.7	16	- 9
10. IRELAND, S.	Malin Head	43	32	39.9	35.3	37.6	- 4.1	0	31	2	0.08	—	*	*	*	*
	Edenfel (Omagh)	41	25	37.0	30.1	33.6	- 5.0	0	59	1	0.92	+ 0.25	*	*	*	*
	Blacksod Point	44	34	41.1	36.9	39.0	- 3.8	0	21	3	0.27	—	*	*	*	*
	Markree Castle	44	27	40.5	32.7	36.6	- 3.5	0	38	2	0.12	- 0.63	7.1	- 7.2	11	- 11
	Armagh	42	24	38.5	30.5	34.5	- 5.2	0	53	3	1.06	+ 0.51	4.5	- 10.0	7	- 15
	Donaghadee	46	31	40.9	34.9	37.9	- 2.9	0	29	1	0.87	+ 0.29	*	*	*	*
CHANNEL ISLANDS	Dublin	43	29	40.8	34.6	37.7	- 4.5	0	30	3	0.17	- 0.32	16.9	+ 0.4	27	+ 1
	Parsonstown	45	28	40.1	31.9	36.0	- 4.4	0	42	3	0.25	- 0.32	16.6	+ 1.3	26	+ 2
	Kilkenny	44	29	39.9	33.7	36.8	- 4.7	0	36	1	0.25	- 0.42	*	*	*	*
	Roche's Point	43	30	40.9	34.3	37.6	- 5.9	0	31	2	0.30	- 0.75	*	*	*	*
	Valencia	46	35	42.0	36.9	39.5	- 5.1	0	18	3	0.62	- 0.66	16.0	- 0.5	25	- 1
	Killarney	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
CHANNEL ISLANDS	Foynes	44	29	41.2	32.7	37.0	- 5.4	0	35	3	0.42	- 0.35	*	*	*	*
	Scilly (St. Mary's)	46	32	43.0	35.3	39.2	- 6.4	3	25	3	0.31	- 0.38	12.7	—	20	—
	Jersey	48	31	41.7	34.7	38.2	- 4.8	0	27	5	0.82	+ 0.18	13.7	- 7.3	21	- 10

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 2nd February.

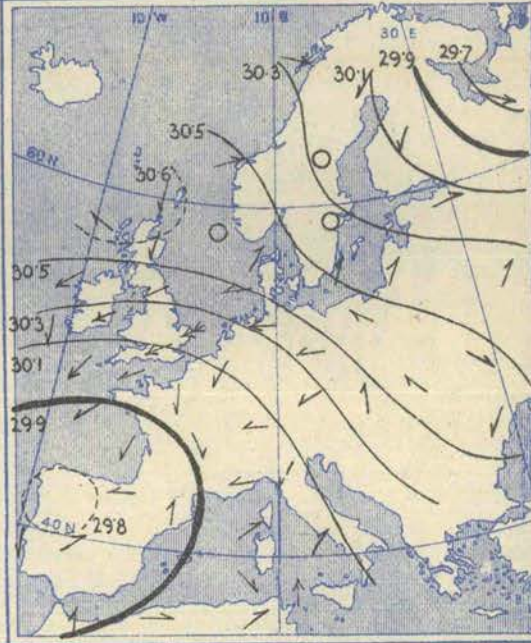
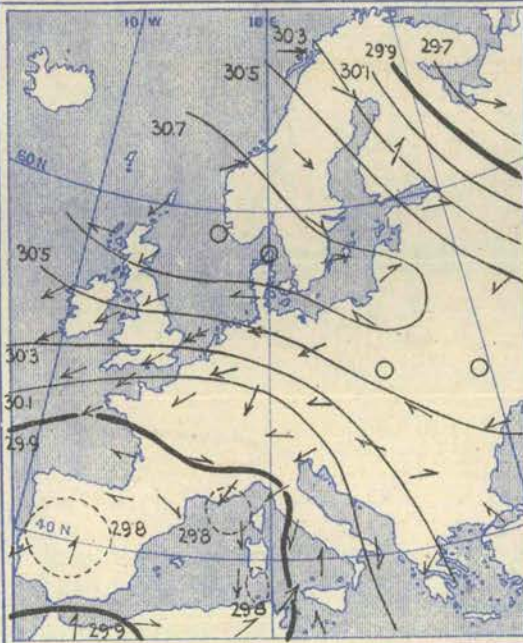
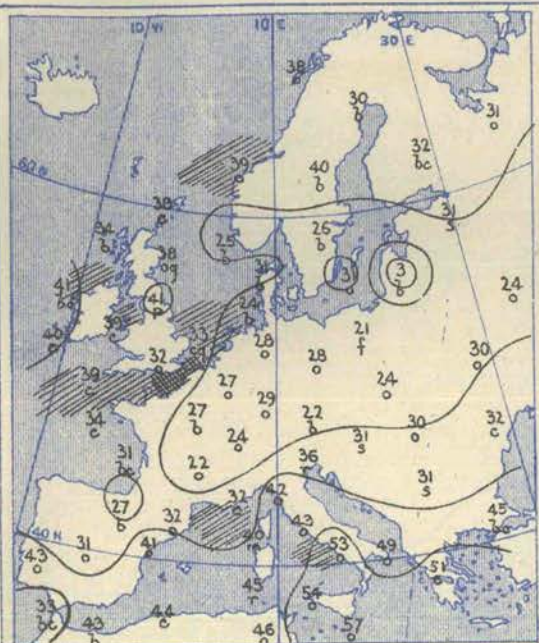
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in isolated parts of the United Kingdom, but mostly cloudy or dull with passing showers at Shields. Fine over the greater part of France, and also in Scandinavia and Denmark; cloudy or dull in the other European countries, with rain at Trieste, and snow at St. Petersburg, Vienna, and Hermanstadt. Snow or sleet falling later in many parts of Great Britain and France, and rain at several of the Italian stations; considerable quantities of rain falling in the extreme south of France—as much as 1·3 in. at Marseilles. Temperature risen considerably in the northern parts both of Scotland and Russia, and to a less extent in Ireland, Germany, and Austria, but fallen elsewhere. Morning readings highest, 57° at Malta, 54° at Palermo and Sfax, and 53° at Naples. Lowest (1) 3° at Riga, 7° at Memel, and 15° at Karlstad; (2) 22° at Lyons and Munich. Below the freezing point over northern, eastern, and central Europe generally, and just touching that level at some stations in the south and south-east of England. Remaining below 40° all day in most parts of England, and only reaching 34° at Oxford; exceeding 40° in Ireland and Scotland. Exceeding 50° at several of the Mediterranean stations, and reaching 66° at Palermo.

Wind Easterly or North-Easterly over our Islands and the western and central parts of the Continent; strong in force in many places, with a gale on the east and south-east coasts of England. Westerly or North-Westerly over Scandinavia and northern Russia; variable over Italy and the Spanish Peninsula. No decided change occurring during day, but wind tending to subside on our own south and east coasts.

Barometer highest, 30·7 ins. and upwards in an anticyclone lying over Norway, the northern parts of Scotland, the North Sea, and Denmark, the south of Sweden and the Baltic Provinces. Lowest, 29·7 ins. and less in a rather deep cyclonic area over the north of Russia; 29·8 ins. and less in several small centres lying over Spain and the western parts of the Mediterranean. Anticyclone giving way gradually during day; cyclonic systems over Mediterranean partially filling up, and gradients for Easterly winds becoming less steep than in morning.

Monday, 3rd February.

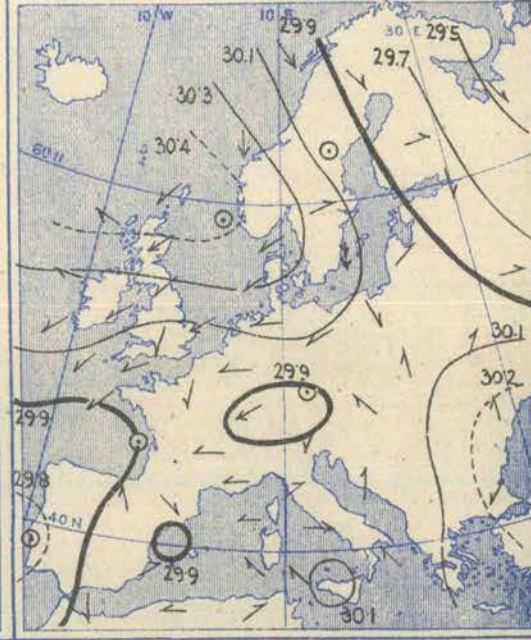
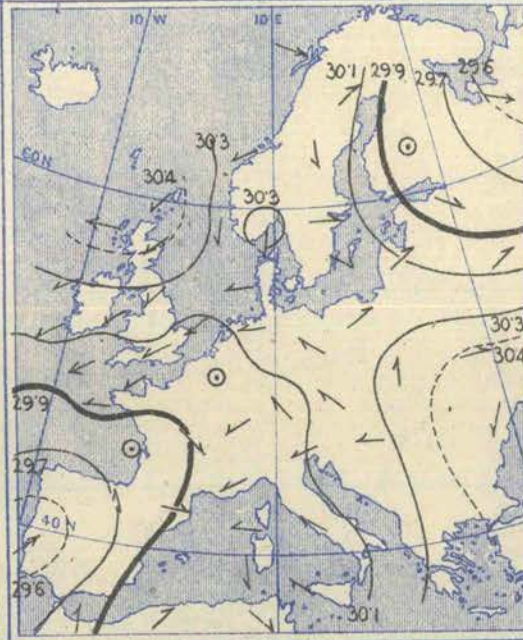
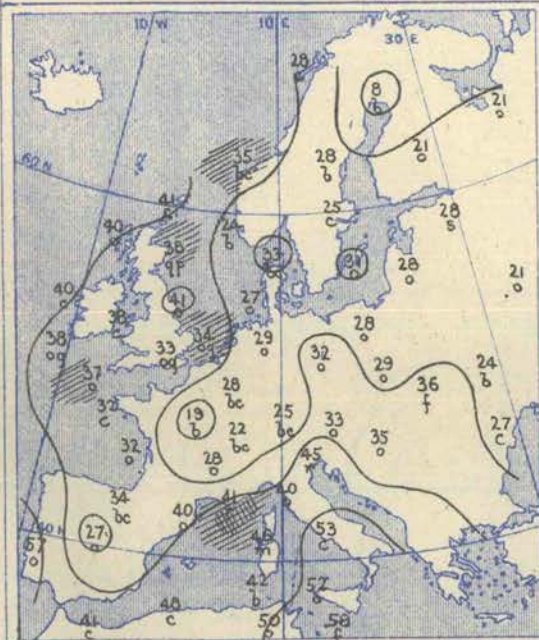
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the United Kingdom generally, with rain or sleet in several isolated places. Fine in France and Belgium, and also in Scandinavia; cloudy in other parts of Europe, with rain at Toulon, and snow at St. Petersburg. Further falls of rain or snow occurring later in many parts of Great Britain; rain falling also over Italy and the extreme south of France, and snow in Austria.

Temperature changed very irregularly in the western and central countries, but fallen in Sweden, Russia, and Italy. Morning readings highest, 58° at Malta, 57° at Lisbon, and 53° at Naples, above 45° at most of the Mediterranean stations. Lowest (1) 8° at Uleaborg, 17° at Haparanda, and 18° at Karlstad, Kuopio, and Moscow; (2) 19° at Paris, and 22° at Belfort; below the freezing point over northern and central Europe generally, and very little above it in many parts of England. Remaining below 35° all day in some parts of southern England; exceeding 50° in Spain and Italy, and reaching 66° at Malta, and 65° at Palermo.

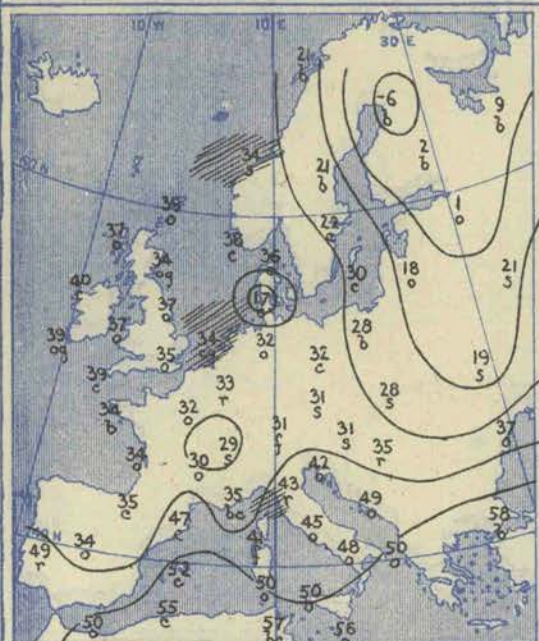
Wind light to fresh from the Eastward or North-Eastward over the United Kingdom and the neighbouring parts of the Continent, and from the South-Eastward in Germany and Austria; variable over the greater part of southern Europe. Northerly or North-Westerly in Scandinavia; Westerly or South-Westerly in Russia. No important change occurring during day.

Barometer 30·4 ins. and upwards in an anticyclone lying over the north of Scotland and the adjacent parts of the Atlantic, and also in another system over the Black Sea, the south of Russia, and the neighbouring parts of Turkey. Lowest, 29·6 ins. and less in a cyclonic system over the western and central portions of the Spanish Peninsula, and also in another system over the extreme north of Russia. Depression over Spain subsequently moving away to the north-westward; no other change of importance occurring over Europe.

Tuesday, 4th February.

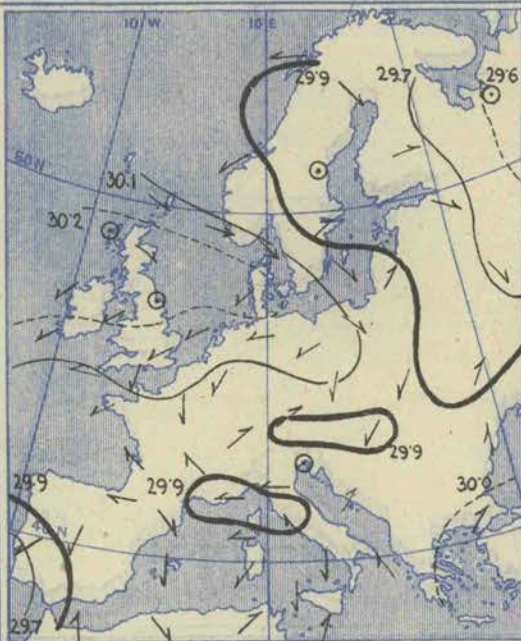
Temperature and Weather.

8 a.m.

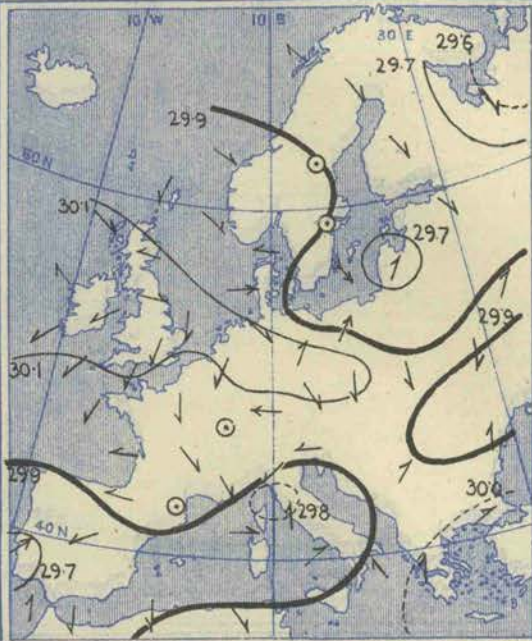


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over the greater part of our Islands and the Continent, with rain or sleet at some of our southern stations; snow falling in Austria and south Germany, and also at Belfort, and Christiansund, Hangö, and Moscow. Fine in the northern parts of Russia and Scandinavia. Sky clearing later at some of our own northern stations, and also in Germany and the south of France. Rain falling in several parts of Spain and Italy. Temperature risen in most parts of western Europe, and also in the extreme south of Russia, but fallen elsewhere—quickly over northern Russia. Morning readings highest, 57° at La Calle, 56° at Malta, and 55° at Algiers; above 45° at most of the Mediterranean and Adriatic stations. Lowest—6° Fahr. at Uleaborg, 0° zero at Haparanda, 1° at St. Petersburg, and 2° at Kuopio; below the freezing point over northern, eastern, and central Europe generally, and also in the north of England. Remaining below 40° all day at most of the English stations, and not exceeding 34° at Oxford. Exceeding 45° in the south of France, and exceeding 50° in Spain and Italy, the highest reading reported being 63° at San Fernando.

Wind light to moderate from the Eastward or North-Eastward over Ireland, England, France, Germany, and the Netherlands. Light from the Westward or North-Westward in the north of Scotland, and moderate to fresh from the same quarters in Denmark and the south of Scandinavia; Easterly or North-Easterly in the west of Norway. Light and variable over Italy and Austria; North-Easterly in Spain. No important change occurring during day.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying over all the more northern parts of the United Kingdom, the North Sea, and the south of Denmark. Lowest, 29.6 ins. and less in a shallow depression over the north of Russia; 29.7 ins. and less in another shallow disturbance off the south-west of Spain. Russian depression subsequently moving eastwards, but Spanish disturbance passing away to the north-westward.

Wednesday, 5th February.

Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over western, southern, and eastern Europe generally, with mist in several parts of the United Kingdom, and fog at Yarmouth, and also at Belfort and Madrid. Rain falling at Biarritz and Bilbao, and snow at Trieste. Fine over the greater part of Scandinavia and northern Russia, but snow falling at Christiansund and St. Petersburg. Rain falling later on our extreme north and north-west coasts, and also in many parts of France—amount as large as 2.0 ins. at Le Mans.

Temperature fallen generally, but risen slightly in the north of Scotland, and more decidedly in Spain and Algeria. Morning readings highest, 63° at Nemours, 60° at Algiers and Patras, and 59° at Lisbon; above 50° at several of the Mediterranean and Spanish coast stations. Lowest—22° Fahr. at Haparanda—17° at Uleaborg, and—10° at Hangö. Considerably below the freezing point over northern and central Europe generally, and slightly below it over the Netherlands and central England. Daily maxima below 35° in several parts of England. Thermometer exceeding 50° in many parts of southern Europe, and reaching 63° at Palermo and Malta.

Wind South-Easterly over the Spanish Peninsula, and Easterly over the Bay of Biscay, and the southern parts of the United Kingdom. South-Westerly on our extreme north and north-west coasts, and Westerly on the east coasts of Great Britain. Variable in Scandinavia and Denmark; Northerly over the Gulf of Finland and the Baltic Provinces; Westerly in north Germany; Easterly or North-Easterly over northern Italy and the extreme south of France; variable in the south of Italy; Southerly in Greece. No decided change occurring later.

Barometer highest, 30.1 ins. and upwards to 30.0 ins. in an anticyclone extending from central Europe over England and the east of Ireland. Lowest, 29.7 ins. and less in two shallow areas—one lying over the north of Russia, and the other off the Portuguese coasts; 29.9 ins. and less in a still shallower system over Italy and the Adriatic. Depression off the Portuguese coasts subsequently advancing north-eastwards; new disturbance appearing off the north of Scotland.

Thursday, 6th February.

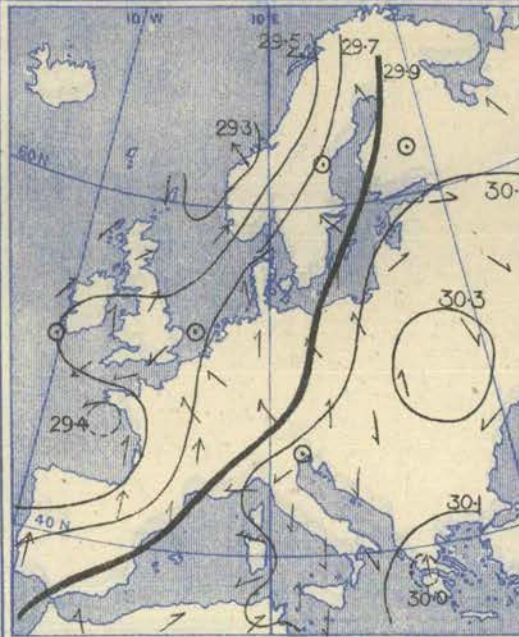
Temperature and Weather.

8 a.m.

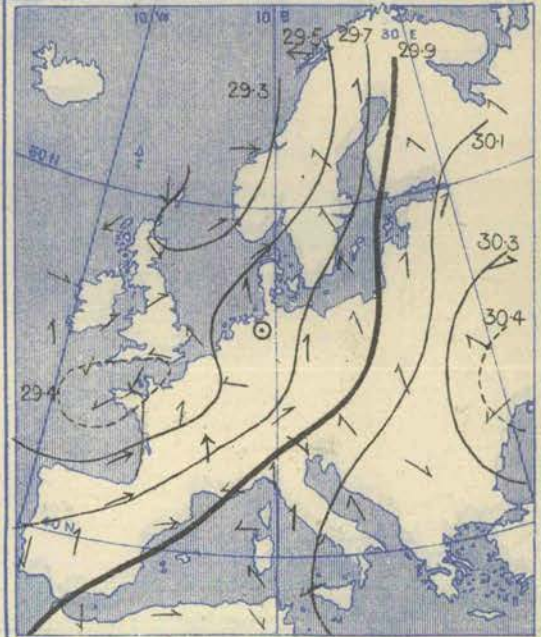


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at some of our own western stations, but cloudy and unsettled over western and northern Europe generally, with fog or mist in several places; rain falling at some of the French stations, sleet in the north of Scotland, and snow at Faerder, Helsingfors, and Frankfurt. Fine in Italy, and fair over south-eastern Europe generally. Considerable quantities of rain falling later in France, Germany, and the extreme south of England—as much as 1.1 in. at Le Mans, and snow over nearly the whole of Scotland. Temperature changed irregularly in our Islands, risen considerably in the west and south of France and in Sweden, fallen elsewhere. Morning readings highest, 66° at Algiers, 63° at Biarritz and Nemours, and 62° at Bilbao; above 55° at several of the Mediterranean and Spanish coast stations. Lowest—15° at Haparanda—12° at Archangel—10° at St. Petersburg, and—3° at Lemberg; considerably below the freezing point over northern, eastern, and central Europe generally, and slightly below it over the central parts of England and Ireland. Remaining below 40° all day in many parts of Great Britain; exceeding 55° in Spain and the southern parts of France and Italy, and reaching 64° at Malta.

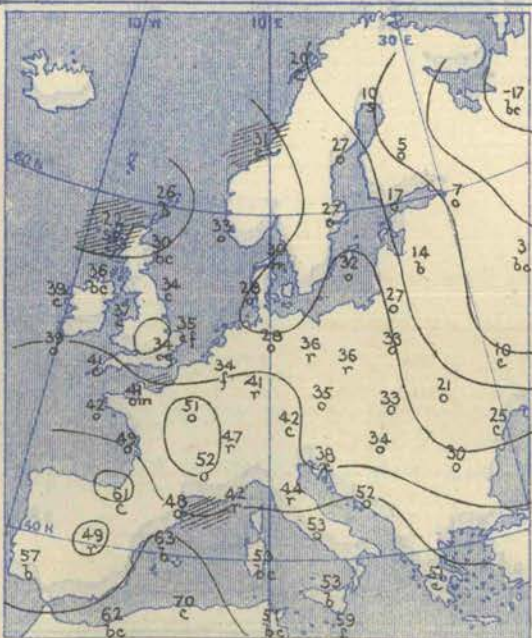
Wind moderate to strong from the Southward over Spain and the south of France; light from the South-Eastward over Germany and the Netherlands, and from the Eastward over the southern parts of the United Kingdom. Southerly in the northern parts of England and Ireland, and also in Denmark and the south of Norway, but Easterly in the west of Norway, and North-Easterly in the extreme north of Scotland. Variable in Russia and Austria; Northerly or North-Westerly in Italy. Subsequently veering to the South-Westward in the west of France; no decided change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards over the south-west of Russia; 30.1 ins. and upwards in an anticyclone embracing nearly the whole of eastern and south-eastern Europe, and extending westwards over Italy. Lowest, 29.3 ins. and less in a cyclonic area off the west of Norway; 29.4 ins. and less in a small disturbance over the Bay of Biscay. Former disturbance subsequently spreading south-eastwards; latter system advancing north-eastwards over the north of France.

Friday, 7th February.

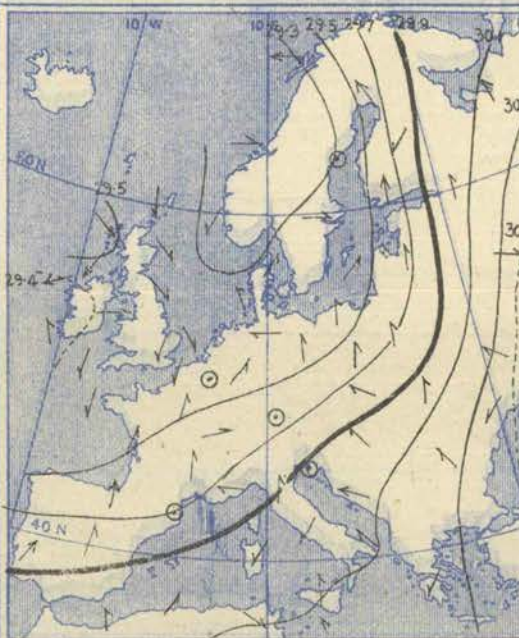
Temperature and Weather.

8 a.m.

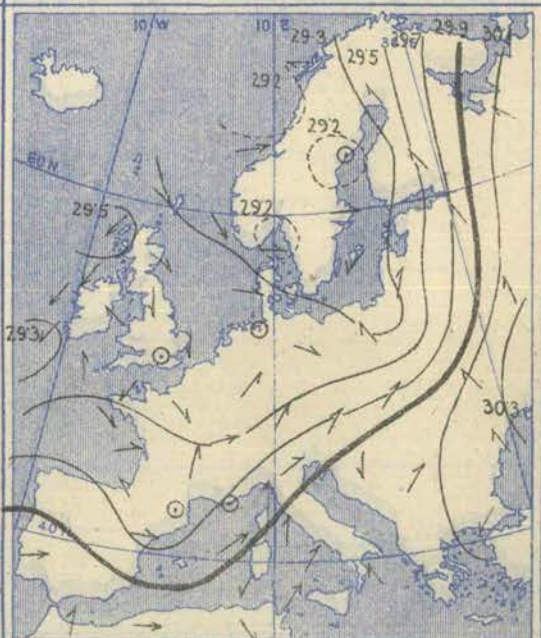


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at several of our own northern stations, but cloudy or dull over Europe as a whole, with fog or mist at several of the English stations; rain falling in the south of Ireland, and also in many parts of France, Spain, Germany, and northern Italy; snow reported at Storöway, Haparanda, Karlstad, and Swinemünde. Snow falling later at many of our own western and northern stations, and considerable amounts of rain in some parts of France and Italy. Thunderstorm occurring at Biskra and La Calle; lightning seen at night at Roche's Point and Scilly, and a bright aurora at Storöway.

Temperature fallen over Great Britain and the eastern shores of the North Sea, but risen elsewhere. Morning readings highest, 70° at Algiers, 63° at Barcelona, and 62° at Nemours; above 55° at several of the Mediterranean and Spanish coast stations. Lowest—17° Fahr. at Archangel, —12° at Kharkov, and +3° at Moscow; below the freezing point in many parts of Great Britain, the lowest reading reported being 22° at Storöway. Frost continuing all day at some places in the north of Scotland; thermometer remaining below 40° in many other parts of Great Britain, but exceeding 55° over southern Europe.

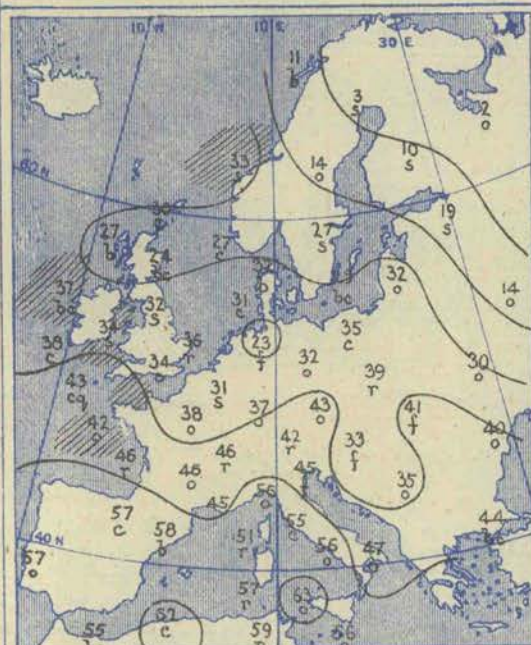
Wind light from the North-Westward on our north and east coasts, and from the North-Eastward in the south of England; light from the Southward in the south of Ireland, but strong from the North-Eastward in the north of that country. Southerly (South-Easterly to South-Westerly) over the greater part of the Continent, but drawing into East in the north of Scandinavia. Subsequently veering to the South-Westward or Westward in many parts of France and Germany; no material change occurring elsewhere.

Barometer highest, 30.5 ins. and upwards over the south of Russia. Lowest, 29.3 ins. and less in a large shallow cyclonic area over Scandinavia; 29.4 ins. and less in a narrow trough over the north of France, and also in a shallow disturbance lying over and to the westward of Ireland. Low pressure trough filling up later; depression over Ireland advancing north-eastwards at night.

Saturday, 8th February.

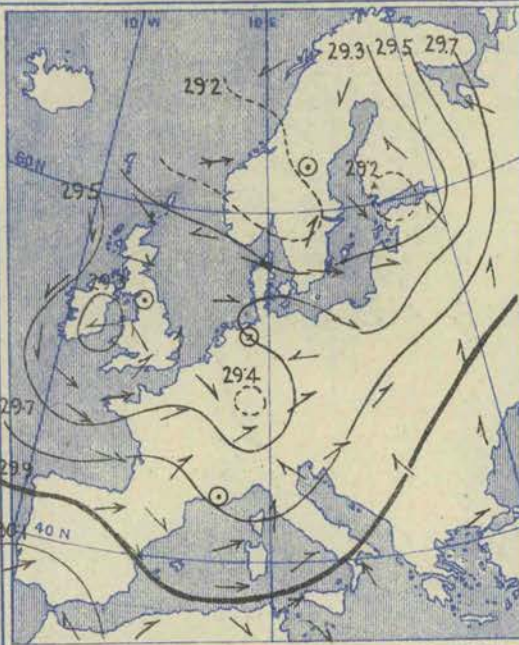
Temperature and Weather.

8 a.m.

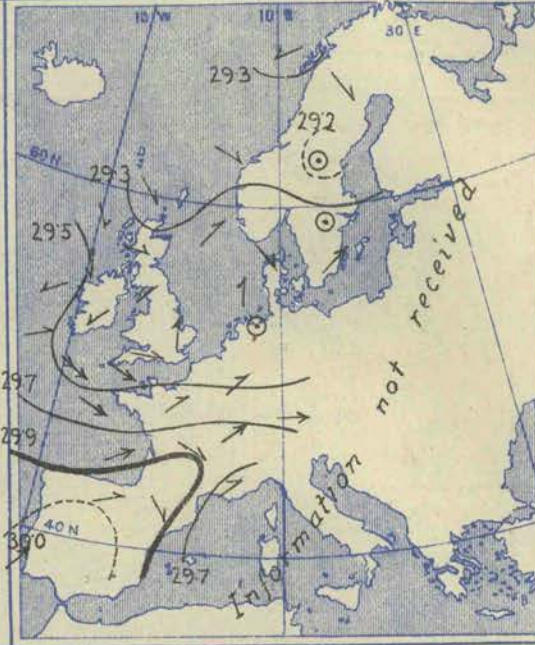


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine on our own extreme north and north-west coasts, but cloudy and unsettled over Europe as a whole, with rain in many parts of Ireland and France, as well as at Warsaw, Munich, and Palermo. Snow falling over the south of Scotland, and all the more northern and central parts of England, as well as in many parts of Scandinavia and northern Russia. Some improvement taking place later over England, but snow falling in Germany and the Netherlands.

Temperature risen slightly over England, Denmark, and Italy, and considerably in Russia, but fallen in most other countries. Morning readings highest, 63° at Palermo, 62° at Algiers, and 59° at La Calle; above 55° at most of the Mediterranean and Spanish coast stations. Lowest, 2° at Archangel, 3° at Haparanda, and 6° at Uleaborg; considerably below the freezing point over Russia and the north of Scandinavia, and also in the north of Scotland, the lowest reading reported in our Islands being 24° at Wick and Aberdeen. Remaining below 35° all day at most of our own northern and central stations. Hard frost occurring over these districts at night.

Wind showing a complete cyclonic circulation over Ireland and England; westerly wind blowing strongly in the Scilly and Channel Islands, and fresh breezes from the same quarter reported over the Bay of Biscay and the Spanish Peninsula. Another cyclonic circulation of light breezes prevailing over Germany and the neighbouring parts of France and the Netherlands. Westerly winds reported over Denmark and the greater part of Scandinavia, with a gale at Christiansund; southerly over Italy and Russia; easterly in the north of Scandinavia. Westerly gale springing up later at the mouth of the Channel; no decided change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards over the southern parts of the Spanish Peninsula, and also in the south of Russia. Lowest, 29.2 ins. and less in two cyclonic systems lying respectively over Scandinavia and over the Gulf of Finland; 29.3 ins. and less in a well-marked disturbance with its centre over the St. George's Channel; 29.4 ins. and less in a very small and shallow system over western Germany. Depression over our western coasts subsequently moving eastwards across England.

GENERAL NOTES.

The earlier days of this period witnessed the gradual dispersal of the very high anticyclone which had formed over our northern districts in the previous week, and a steady reduction of the barometric gradient over Ireland, England and Central Europe. The easterly and north-easterly gales hitherto reported on the English and Irish coasts continued throughout the greater part of Sunday, but afterwards subsided quickly.

In the course of the 6th the anticyclone practically disappeared from our islands, the highest pressures being found during the remainder of the week over various parts of south-eastern and south-western Europe. In the western countries the weather was now affected by two shallow cyclonic areas, one of which moved slowly eastwards across Scandinavia, while the other advanced north-eastwards over the Bay of Biscay and the north of France. The former disturbance occasioned snow in most parts of Scotland and northern Europe, while the progress of the latter was attended by considerable falls of rain over France, the Netherlands and the extreme south of England, neither depression being of sufficient depth to cause any serious increase of wind. At the close of the week another cyclonic system of a very well defined character advanced over our islands from the south-westwards and moved eastwards across England, its passage being marked by heavy falls of snow in many of our northern and central districts. In the rear of this disturbance a brief gale from West-North-West was experienced at the mouth of the English Channel.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 32.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	5.1	- 6.6	9	- 11	WORTHING	4.2	—	7	—
STRATHPEFFER SPA	11.6	- 1.7	20	- 2	BOGNOR	5.6†	—	9†	—
EDINBURGH	9.2	- 3.0	15	- 5	WATERGATE (Emsworth)	6.1	—	10	—
MORPETH	14.2	—	23	—	WESTBOURNE (Emsworth)	5.5†	- 12.1	9†	- 18
NEWCASTLE-ON-TYNE	9.1	—	15	—	VENTNOR HOSPITAL	7.2	- 10.4	11	- 16
YORK	5.7	- 6.7	9	- 10	BOURNEMOUTH	13.8	—	22	—
LOWESTOFT	1.6	—	3	—	SOUTHPORT	6.5	—	10	—
HOLLESLEY BAY	3.7	—	6	—	RHYL	3.3†	—	5†	—
SHEFFIELD	3.8	—	6	—	COLWYN BAY	—	—	9†	—
WORKSOP	2.6	- 10.1	4	- 16	ABERDOVEY	5.8†	—	19	- 9
THURCASTON (Leicestershire)	8.0	- 5.4	13	- 8	TENBY	12.1	- 6.1	18	- 9
MARGATE	—	—	—	—	NEWQUAY	12.0	- 5.7	—	—
BROADSTAIRS	3.6	—	6	—	TORQUAY	—	—	13†	—
EASTBOURNE	3.4	- 13.4	5	- 20	CAHIR (Dunesske)	11.3†	—	5†	- 24
BRIGHTON	4.1	- 12.9	6	- 10	GUERNSEY	3.6†	- 15.7	—	—

† The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, FEBRUARY 15TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 38.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	44	-2	36.4	20.5	28.5	9 below	Day-deg. 0	Day-deg. - 7	Day-deg. 95	Day-deg. +59	Day-deg. 31	Day-deg. - 14	Day-deg. 382	Day-deg. +131
	1. SCOTLAND, EAST	47	0	37.2	20.9	29.1	9 below	0	- 9	90	+49	39	- 17	382	+ 90
	2. ENGLAND, N.E.	42	13	35.7	21.2	28.5	10 below	0	-10	95	+61	77	+ 19	262	+ 12
	3. ENGLAND, EAST	42	14	36.9	22.6	29.8	9 below	0	-11	85	+47	85	+ 23	263	- 16
	4. MIDLAND COUNTIES	44	9	37.7	20.5	29.1	10 below	0	-13	90	+53	83	+ 8	278	- 6
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	46	17	38.0	25.8	31.9	8 below	0	-15	71	+43	86	- 5	204	- 13
	6. SCOTLAND, WEST	44	10	36.3	19.4	27.9	11 below	0	-10	99	+70	66	- 4	277	+ 71
	7. ENGLAND, N.W.	45	4	37.1	20.1	28.6	11 below	0	-11	94	+66	68	- 4	239	+ 35
	8. ENGLAND, S.W.	49	13	40.0	24.3	32.2	9 below	0	-18	69	+47	106	- 9	191	+ 33
	9. IRELAND, NORTH	48	4	37.9	21.5	29.7	11 below	0	-15	86	+62	67	- 29	214	+ 37
	10. IRELAND, SOUTH	47	13	39.1	24.3	31.7	11 below	0	-	72	+54	107	- 41	166	+ 23
—CHANNEL ISLANDS—		50	28	44.0	32.9	38.5	6 below	6	-19	34	+25	183	+ 11	73	+ 6

DISTRICTS. (See p. 38.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 7	10ths of in. 4 less	38	+ 4	8.6	+ 0.2	26	+13	41	+20	78	+ 20	21	+ 5	
	1. SCOTLAND, EAST	2	1	5 less	24	- 3	2.4	- 1.9	36	+20	55	+30	93	+ 12	24	+ 3	
	2. ENGLAND, N.E.	2	2	2 less	19	- 6	1.9	- 1.1	33	+18	50	+27	92	+ 11	22	+ 3	
	3. ENGLAND, EAST	3	1	3 less	21	- 6	1.5	- 1.5	35	+12	52	+19	115	+ 9	24	+ 2	
	4. MIDLAND COUNTIES	1	1	5 less	19	- 8	2.0	- 1.7	27	+15	40	+23	84	+ 13	23	+ 3	
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	1	less than half	5 less	18	- 8	2.0	- 2.0	35	+15	52	+23	106	+ 6	23	+ 1	
	6. SCOTLAND, WEST	3	2	9 less	30	- 2	6.3	- 2.1	27	+13	42	+21	84	+ 13	21	+ 3	
	7. ENGLAND, N.W.	3	3	3 less	26	- 2	3.7	- 1.0	31	+16	46	+24	92	+ 17	23	+ 4	
	8. ENGLAND, S.W.	1	1	8 less	23	- 7	3.5	- 2.8	45	+27	66	+41	113	+ 16	27	+ 3	
	9. IRELAND, NORTH	4	3	3 less	30	- 2	4.7	- 0.2	29	+13	43	+20	81	- 2	20	- 1	
	10. IRELAND, SOUTH	1	1	8 less	21*	-11	3.5	- 3.0	37	+20	55	+29	105	+ 8	26	+ 2	
— CHANNEL ISLANDS—		5	3	3 less	23	- 3	3.4	- 1.7	38	+11	56	+16	101	- 27	20	- 6	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was very fine and dry over the Kingdom as a whole, but falls of snow (generally rather small) were very frequent in the extreme north-west of Ireland, and the north and north-west of Scotland.

Temperature continued much below the mean. The deficit varied from 6° in the Channel Islands to 9° in Scotland N. and E. and England E. and S.W., and to as much as 11° in Scotland W. and England N.W. and over Ireland. In every district except the Channel Islands and England S.W. the average for the week was below 32°. The highest of the maxima were recorded, as a rule, during the earlier half of the week over England, and towards its close elsewhere, they ranged from 50° in the Channel Islands and 49° in England S.W. to 42° in England N.E. and E. On some days the maximum readings at inland stations were below 32°; at Manchester, on Thursday, the highest value was only 26.7°. The absolute minima were lower than any previously reported during the present winter. They ranged from minus 2° in Scotland N., 0° zero in Scotland E. (at Lairg and Braemar on Friday), and 4° in England N.W. and Ireland N., to 17° in England S., and to 28° in the Channel Islands. At Hodsock, near Workop, a thermometer placed on the snow on Wednesday recorded a minimum of minus 8°, the minimum temperature by the screened thermometer at the same time was +5°.

Rainfall was less than the mean in all districts. At many stations, especially in the east and south, there was none.

Bright Sunshine greatly exceeded the normal amount. The percentage of the possible duration ranged from 66 in England S.W. and 56 in the Channel Islands to 41 in Scotland N. and 40 in the Midland Counties.

Barometer and Wind.—During the earlier days of the week shallow low pressure areas were travelling eastwards over the North Sea and the English Channel, while the barometer was rising slowly and the winds over our Islands were light from N.W. or N. By the middle of the week a band of relatively high pressure stretched south-eastwards from the Atlantic over England to the Continent, and the winds were consequently North-Westerly or Westerly in the North, and North-Easterly in the south. This distribution, in a modified form, continued until nearly the close of the period, but on Friday a small cyclonic disturbance approached from north-west to the North Sea, and moved south-eastwards. On Saturday the barometer was falling decidedly along our western coasts, and the winds in those regions had shifted to the Southward and in force increased greatly.

DISTRICTS	NAMES OF STATIONS.	Temperature.							Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.							Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)							
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	42	24	35.1	25.7	30.4	- 7.9	0	81	6	0.43	- 0.33	*	*	*
	Stornoway	44	21	33.3	24.6	31.5	- 7.5	0	74	7	2.14	+ 1.19	20.6	+ 5.6	33
	Wick	40	13	34.7	18.9	26.8	- 11.1	0	106	6	0.40	- 0.11	*	*	+ 9
	Lairg	44	- 2	40.3	13.3	26.8	- 8.8	0	106	5	0.60	- 0.15	*	*	*
	Glencarron	39	11	33.4	21.0	27.2	- 9.8	0	104	6	1.06	- 0.68	*	*	*
	Fort Augustus	42	9	37.2	18.1	27.7	- 10.6	0	100	4	0.18	- 0.77	26.3	+ 16.8	42
	Fort William	41	14	35.9	21.7	28.8	- 10.2	0	92	4	0.36	- 1.57	26.2	+ 13.4	41
1. SCOTLAND, E.	Nairn	43	8	33.3	20.9	29.6	- 8.2	0	87	5	0.21	- 0.18	*	*	*
	Aberdeen	41	20	35.0	23.4	29.2	- 9.1	0	90	5	0.17	- 0.38	39.3	+ 20.9	61
	Braemar	38	0	32.1	15.9	24.0	- 10.6	0	126	2	0.22	- 0.46	*	*	*
	Ochertyre	44	17	39.9	23.3	31.6	- 6.1	0	73	1	0.01	- 0.38	*	*	*
	Leith	47	19	41.6	24.1	32.9	- 6.8	0	64	0	0.00	- 0.37	*	*	*
	Marchmont	40	14	36.3	17.9	27.1	- 10.2	0	104	1	0.07	- 0.52	31.3	+ 14.6	49
	Alnwick Castle	41	13	36.0	19.2	27.6	- 10.7	0	101	4	0.40	- 0.15	*	*	*
2. ENGLAND N.E.	Durham	39	13	34.8	18.8	26.8	- 11.1	0	106	2	0.13	- 0.27	36.7	+ 20.3	56
	Shields	41	19	36.1	20.7	28.4	- 10.9	0	95	2	0.10	- 0.27	*	*	+ 31
	Scarborough	39	18	35.5	21.4	28.5	- 10.7	0	95	3	0.28	- 0.16	27.8	—	42
	Spurn Head	37	24	35.9	26.0	31.0	- 7.9	0	77	1	0.13	- 0.21	*	*	*
	Fulbeck (Lincolnshire)	42	?	39.6	?	?	?	?	?	2	0.10	- 0.27	*	*	*
	Hillington	39	14	37.3	17.9	27.6	- 10.8	0	101	4	0.30	- 0.10	28.6	+ 10.8	43
	Yarmouth	37	22	35.3	25.6	30.5	- 7.8	0	81	3	0.08	- 0.32	*	*	*
3. ENGLAND, E.	Geldeston	40	19	37.4	22.8	30.1	- 8.9	0	83	4	0.12	- 0.24	33.6	+ 15.3	50
	Cambridge	42	15	38.6	21.9	30.3	- 8.5	0	82	2	0.03	- 0.31	30.8	+ 12.8	46
	Felixstowe	39	24	36.4	26.0	31.2	- 7.8	0	76	2	0.07	—	46.2†	—	69†
	Rothamsted	40	18	36.5	21.6	29.1	- 9.2	0	90	2	0.02	- 0.47	26.5	+ 9.8	39
	Bawtry (Hesley Hall)	42	10	35.0	18.7	26.9	- 11.8	0	106	2	0.15	- 0.23	*	*	*
	Loughborough	41	9	38.3	16.1	27.2	- 11.8	0	104	1	0.11	- 0.33	*	*	*
	Colly Weston (Stamford)	40	12	38.7	21.3	30.0	- 8.0	0	84	2	0.07	—	*	*	*
4. MIDLAND COUNTIES	Cheadle	41	17	35.9	21.3	28.6	- 9.0	0	94	4	0.10	- 0.47	*	*	*
	Birmingham (Mid. Inst. Obs.)	40	21	36.6	23.7	30.2	- 8.7	0	83	1	0.02	- 0.42	13.4	—	20
	Churchstoke	44	14	39.0	19.6	29.3	- 9.3	0	89	1	0.06	- 0.54	43.5	+ 26.3	65
	Hereford	44	15	39.7	19.7	29.7	- 9.9	0	86	0	0.00	- 0.61	*	*	+ 39
	Cirencester	41	19	37.4	21.4	29.4	- 9.0	0	88	0	0.00	- 0.58	32.8	+ 14.8	49
	Oxford	42	20	38.6	22.9	30.8	- 8.7	0	78	0	0.00	- 0.44	28.4	+ 11.9	42
	London	40	18	36.0	24.1	30.1	- 10.2	0	83	0	0.00	- 0.42	13.4†	+ 37†	20†
5. ENGLAND, S.	Swarraton (Alresford)	39	17	36.4	21.9	29.2	- 9.5	0	90	0	0.00	- 0.65	*	*	+ 6†
	Dungeness	42	21	37.7	25.3	31.5	- 8.5	0	74	2	0.05	- 0.29	34.2	—	50
	Hastings (St. Leonards)	42	24	37.8	27.1	32.5	- 7.8	0	67	3	0.07	- 0.46	37.6	+ 17.2	55
	Southampton	44	23	40.0	25.9	33.0	- 8.0	0	63	1	0.01	- 0.60	36.8	+ 18.3	54
	Portland Bill	46	27	41.1	30.3	35.7	- 7.0	0	44	1	0.01	—	*	*	+ 25
	Shaftesbury	40	23	36.8	26.0	31.4	- 7.4	0	74	0	0.00	- 0.66	*	*	*
	Laudale (Loch Sunart)	42	18	36.1	20.6	28.4	- 11.5	0	95	5	0.33	- 1.32	*	*	*
6. SCOTLAND, W.	Glasgow	41	18	36.5	24.1	30.3	- 8.6	0	82	1	0.07	- 0.70	24.6	+ 13.9	38
	Cally	40	10	34.6	12.2	23.4	—	0	130	1	0.09	—	*	*	+ 22
	Douglas (Isle of Man)	44	14	38.0	20.6	29.3	- 11.4	0	89	5	0.46	- 0.38	29.9	+ 12.9	45
	Newton Reigny	42	4	35.1	10.0	22.6	- 14.3	0	136	2	0.04	—	33.5	—	52
	Stonyhurst	38	9	35.4	18.5	27.0	- 11.7	0	105	4	0.19	- 0.66	27.2	+ 12.6	41
	Blackpool	44	14	39.0	21.0	30.0	- 9.3	0	84	4	0.20	- 0.37	29.8	+ 14.6	45
	Manchester (Prestwich)	39	9	34.1	14.7	24.4	- 14.3	0	123	2	0.19	- 0.38	6.2	—	9
7. ENGLAND, N.W.	Liverpool Obs. (Bidston)	39	17	36.0	24.0	30.0	- 9.9	0	84	3	0.46	+ 0.02	33.2	—	50
	Chester	44	8	37.9	14.1	26.0	- 14.7	0	112	0	0.00	—	*	*	—
	Llandudno	45	24	39.7	27.7	33.7	- 8.1	0	58	5	0.82	+ 0.28	39.4	+ 22.1	59
	Holyhead	44	27	39.7	30.9	35.3	- 6.4	0	47	5	0.21	- 0.42	*	*	+ 33
	Llandovery	49	13	40.1	15.6	27.9	- 11.3	0	99	2	0.06	- 0.39	*	*	*
	Pembroke	46	28	41.3	30.4	35.9	- 6.5	0	43	0	0.00	- 0.67	43.6	+ 24.8	65
	Clifton	42	22	37.6	24.8	31.2	- 9.5	0	76	0	0.00	- 0.66	*	*	+ 37
8. ENGLAND, S.W.	Bath	44	16	38.9	21.7	30.3	- 11.1	0	82	0	0.00	—	33.9	—	50
	Arlington (N. Devon)	42	19	39.0	22.1	30.6	- 10.0	0	80	1	0.13	- 0.90	*	*	*
	Cullompton	44	19	41.0	22.2	31.6	- 9.4	0	73	0	0.00	- 0.73	42.4	+ 25.7	62
	Falmouth	46	28	40.2	29.8	35.0	- 8.8	0	49	2	0.33	- 0.64	49.0	+ 28.6	72
	Plymouth	46	25	42.0	27.5	34.8	- 7.9	0	50	0	0.00	- 0.74	47.8	+ 29.0	70
	Malin Head	42	29	38.6	31.6	35.1	- 6.6	0	48	6	0.80	—	*	*	*
	Edenfel (Omagh)	40	4	35.1	9.1	22.1	- 16.9	0	139	2	0.03	- 0.61	*	*	*
9. IRELAND, N.	Blacksod Point	48	24	41.7	28.1	34.9	- 8.1	0	50	6	0.58	—	*	*	*
	Markree Castle	44	12	40.7	17.7	29.2	- 11.3	0	90	4	0.24	- 0.49	28.4	+ 12.7	43
	Armagh	37	13	34.3	17.8	26.1	- 13.9	0	111	0	0.00	- 0.55	28.7	+ 13.0	43
	Donaghadee	41	20	37.0	24.9	31.0	- 10.2	0	77	3	0.32	- 0.25	*	*	+ 20
	Dublin	44	22	37.9	24.9	31.4	- 11.1	0	74	0	0.00	- 0.50	39.7	+ 22.1	60
	Parsonstown	44	13	37.6	19.9	28.8	- 12.0	0	92	0	0.00	- 0.54	37.8	+ 11.2	41
	Kilkenny	46	17	38.9	20.6	29.8	- 11.9	0	85	0	0.00	- 0.63	*	*	+ 16
10. IRELAND, S.	Roche's Point	45	25	41.4	28.7	35.1	- 8.6	0	48	1	0.04	- 0.99	*	*	*
	Valencia	47	25	41.3	28.4	34.9	- 9.8	0	50	2	0.13	- 1.11	42.7	+ 24.8	64
	Killarney	?	19	?	22.7	?	?	?	?	2	0.48	- 0.78	*	*	+ 38
	Foynes	45	17	37.4	23.4	30.4	- 12.3	0	81	1	0.03	- 0.72	*	*	*
	Scilly (St. Mary's)	50	31	45.0	33.4	39.2	- 6.5	8	32	4	0.30	- 0.36	48.8	—	72
	Jersey	46	28	43.0	32.3	37.7	- 5.6	3	35	5	0.36	- 0.26	36.3	+ 13.2	53
	CHANNEL ISLANDS														+ 20

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Records are in use.

For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake

Sunday, 9th February.

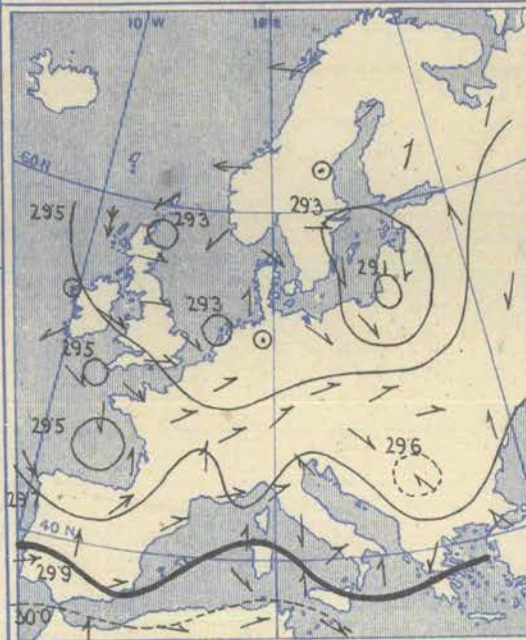
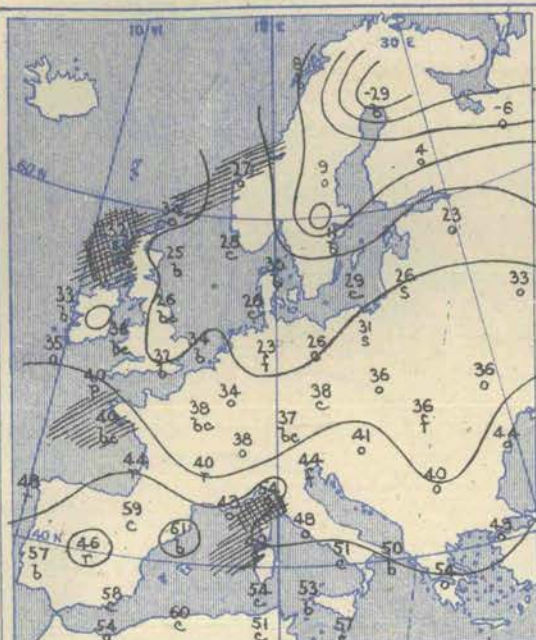
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in most parts of the United Kingdom, but snow falling at some north-western and western stations. Cloudy or dull over Europe as a whole, with snow at Münster and on the eastern shores of the Baltic, and rain at Frankfurt, in central and western France, and over Spain. Snow showers experienced later in the north and west of the British Isles and many parts of northern Europe, and rain in the southern countries.

Temperature fallen in nearly all regions—quickly in Sweden. Readings at 8 a.m. highest, 61° at Barcelona, 60° at Algiers, 59° at Biarritz, 57° at Lisbon and Malta. Lowest—29° at Haparanda—6° at Archangel, and many degrees below freezing point over northern Europe generally. Lowest in our Islands, 21° at Loughborough, and 23° at Wick and Parsonstown. Not exceeding 36° at our east coast stations during day, but rising to 44° at Scilly, to 50° or more in many parts of France, 61° at Biarritz, 64° at Palermo, and to 73° at Algiers. Remaining much below 32° over northern Europe.

Wind in morning circulating around various low pressure areas situated near Riga, over the northern and southern parts of the North Sea, the Bay of Biscay, and Transylvania. Light or moderate in force as a whole, but Westerly wind fresh or strong over Spain, and Northerly wind blowing a fresh gale at Stornoway. Latter strong winds dying down during day, and most cyclonic circulations becoming transferred to a more easterly position; that in Transylvania dispersing.

Barometer at 8 a.m. highest, 30.0 ins. and upwards over the south of Spain and Algeria. Lowest, 29.10 ins. in a cyclonic system near Riga, below 29.3 ins. in two other systems over the North Sea, about 29.5 ins. in a disturbance over the Bay of Biscay, and in a small one near Scilly, and below 29.6 ins. in another near Hermanstadt. Nearly all disturbances moving eastwards later, but the small system near Scilly remaining stationary.

Monday, 10th February.

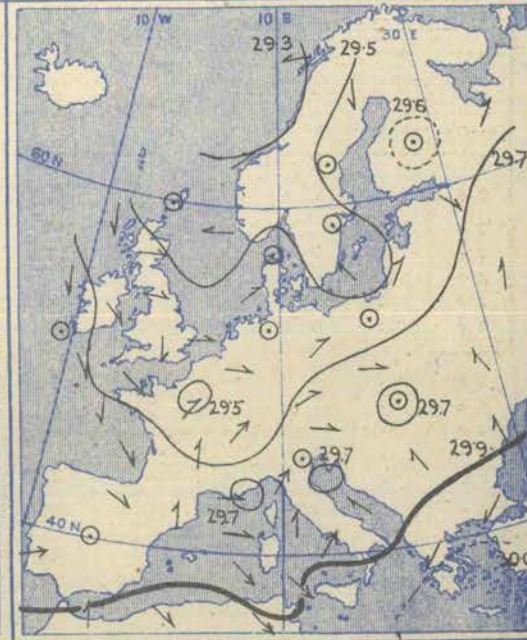
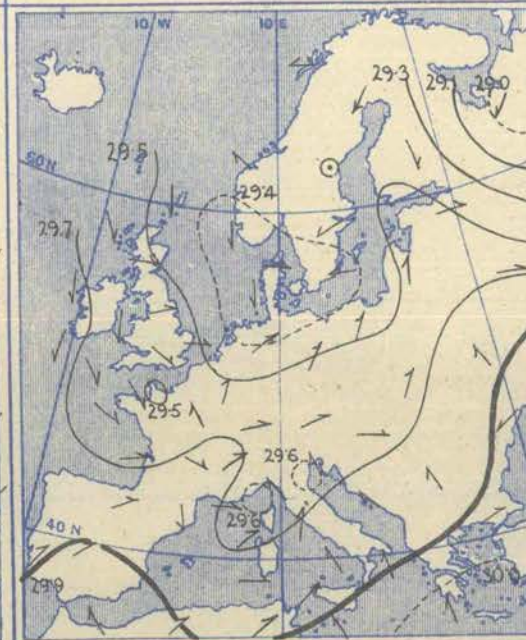
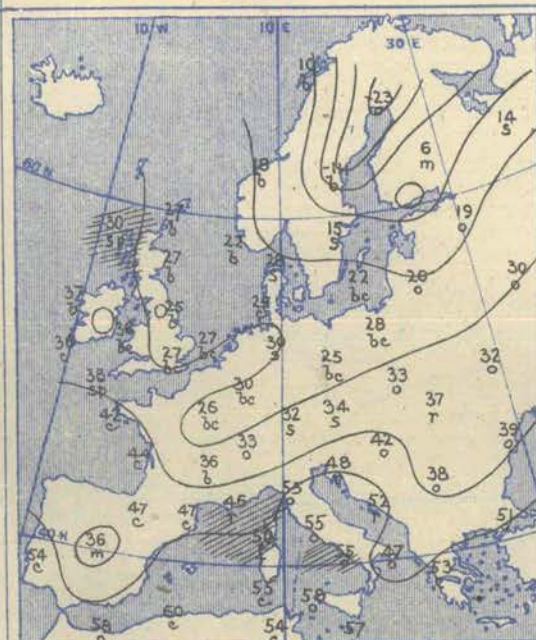
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull in most regions, but fine and bright in most parts of our Islands and at some Norwegian stations. Snow falling at Archangel, the south of Sweden, north of Denmark, and in several parts of Germany, and rain over northern Italy and the Adriatic, as well as at Lemberg. Snow showers at some of our own western and northern stations. Snow showers general over our western and northern districts during day, and rain or snow in many parts of northern and central Europe.

Temperature at 8 a.m. highest, 60° at Algiers, and above 50° on nearly all Mediterranean shores; 54° at Lisbon. Lowest—23° at Haparanda—11° at Helsingfors, and—2° at Helsingfors; much below 32° over the whole of northern Europe, and several degrees below it in most parts of the United Kingdom and at Paris. Not rising above 32° all day at some of our own northern stations, but thermometer rising to 67° at Nice, 58° at Rome, 66° at Malta, and 70° at Algiers.

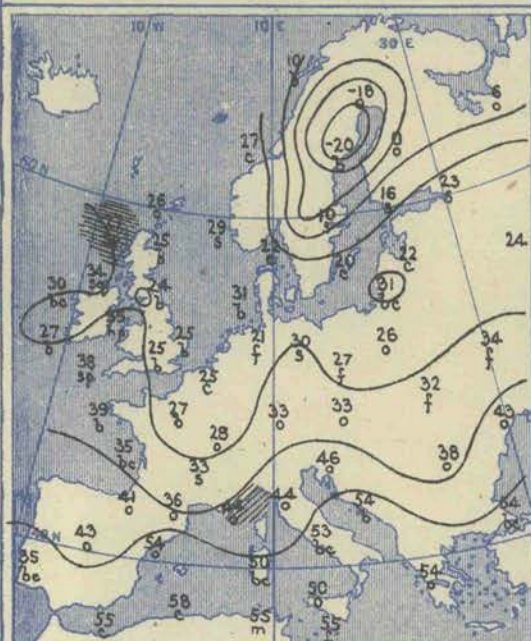
Wind in morning light or moderate in force throughout our area. Chiefly from North or North West over our Islands and the central countries, and from North East in Scandinavia; North-Westerly to Westerly over Finland, and North-Easterly at Archangel. Separate cyclonic circulations over the Gulf of Genoa, north Italy, and neighbouring regions. Wind backing to South-West in the west of Norway by evening, and a faint cyclonic circulation shown over the north and north east of France; no very decided change elsewhere.

Barometer at 8 a.m. highest, 30.0 ins. and upwards over the extreme south of Russia and Greece. Lowest, 29.0 ins. and less in a disturbance near Archangel; 29.4 ins. and less in a large shallow area over Denmark and the surrounding regions, and below 29.6 ins. in two other shallow systems—one lying over our south-west coasts, the Channel, and north of France, and the other (with two centres) over the north of Italy and the Gulf of Genoa. Disturbance near Archangel entirely disappearing during day, and those over the Channel and Denmark moving eastwards. New disturbance approaching the west of Norway from the westward.

Tuesday, 11th February.

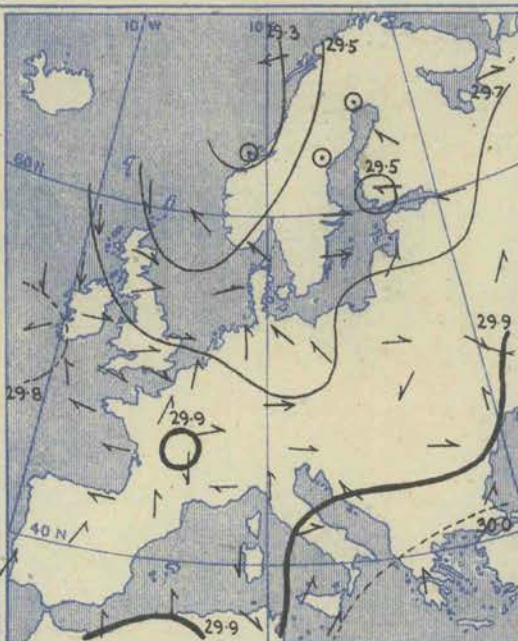
Temperature and Weather.

8 a.m.

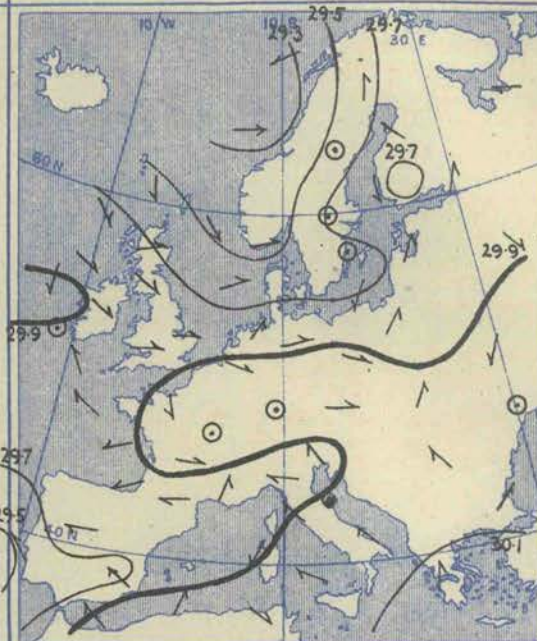


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the major portion of the United Kingdom and the north of France, cloudy or dull over the Continent as a whole. Snow falling at Lyons, Berlin, Stockholm, Hango, and St. Petersburg; rain at Kharkof, and snow showers at a few of our own north-western and western stations. Some snow later in most of our northern and north-western districts, as well as over the Netherlands, Denmark, and some northern and eastern regions. Rain falling in many parts of Italy, at Marseilles and Madrid.

Temperature at 8 a.m. highest, between 58° and 55° on the coast of Algeria, and 55° at Lisbon and Palma. Lowest—20° at Hernösand—18° at Haparanda, and—4° at Karlstad. Much below 32° over the northern half of Europe generally. Lowest in our Islands, 15° at Newton Reigny, and 22° at Parsonstown. Subsequently rising to 48° at Scilly, and to about 40° over central England, but not exceeding 30° over the north-east of Scotland. Maxima as high as 57° recorded in the Riviera and Italy, and as high as 68° in Algeria.

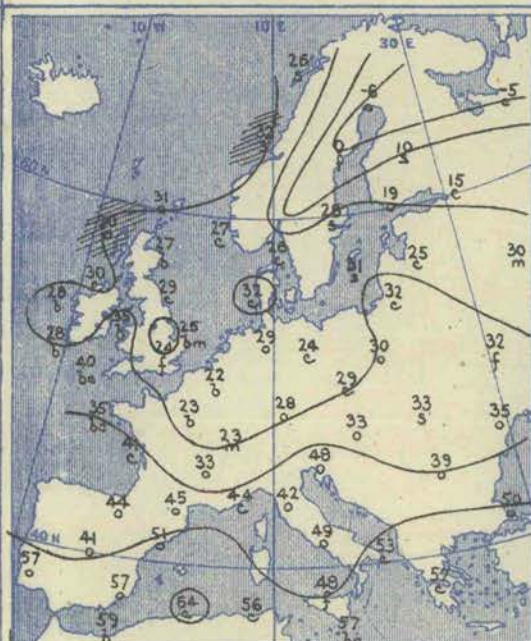
Wind at 8 a.m. very variable, and generally light or moderate in force. Chiefly from between North and West over the United Kingdom, and from some Southerly or Westerly point in the Mediterranean and southern Europe. Westerly over the Baltic, Easterly and South-Easterly in Finland and East-North-Easterly at Bodö. Wind veering over our Islands, and to the eastward of the North Sea during day, and backing towards East in Spain.

Barometer at 8 a.m. highest, 30.0 ins. and upwards over the extreme south-east of Europe. Lowest, 29.3 ins. and less in a cyclonic system over the west coast of Norway; below 29.5 ins. in another disturbance to the eastward of Stockholm; below 29.6 ins. in the neighbourhood of Berlin, and below 29.8 ins. in a band of relatively low pressure over the north of Spain, the Riviera, and Corsica. Norwegian disturbance, and those near Stockholm and Berlin all moving eastwards later, and a new fall of the barometer commencing in Portugal.

Wednesday, 12th February.

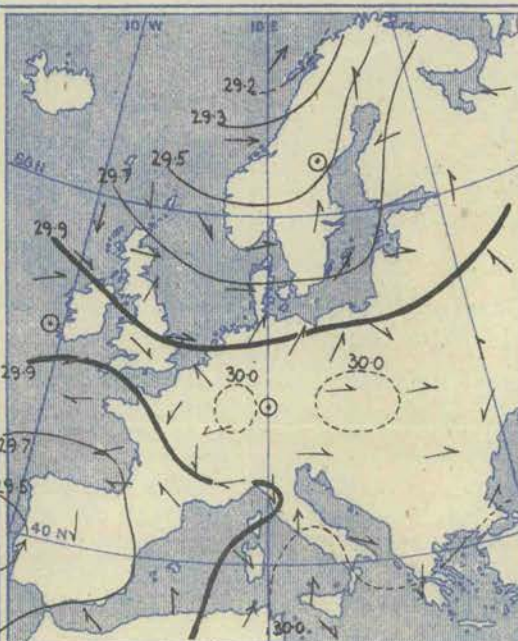
Temperature and Weather.

8 a.m.

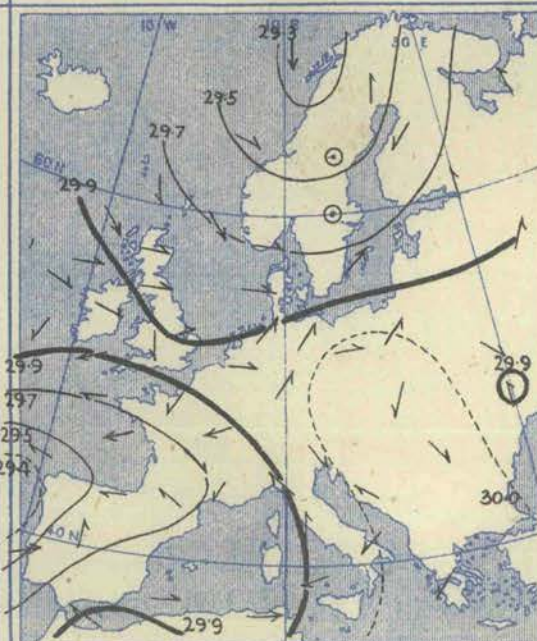


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in most regions, but fine and bright at many of our own and the French stations. Foggy over central England and at Parsonstown, and snow falling at Malin Head. Snowing also in several parts of Scandinavia, at Kuopio, and in Hungary. Slight snow later at a few of our northern stations, and rather heavier falls in different parts of northern and central Europe. Heavy rain in the south of France, and at some Italian and Spanish stations.

Temperature at 8 a.m. highest, 64° at Algiers, 59° at Nemours, and 57° at Lisbon and Malta. Lowest—6° at Haparanda—5° at Archangel, zero at Hernösand. Lowest in our Islands, 10° at Loughborough. Below 32° over northern and central Europe, and nearly the whole of the United Kingdom. Rising during day to about 40° at our central and south-western stations, but only touching 30° in London. Maxima of 57° occurring in the Riviera and Italy, 66° at Malta, and 73° at Algiers.

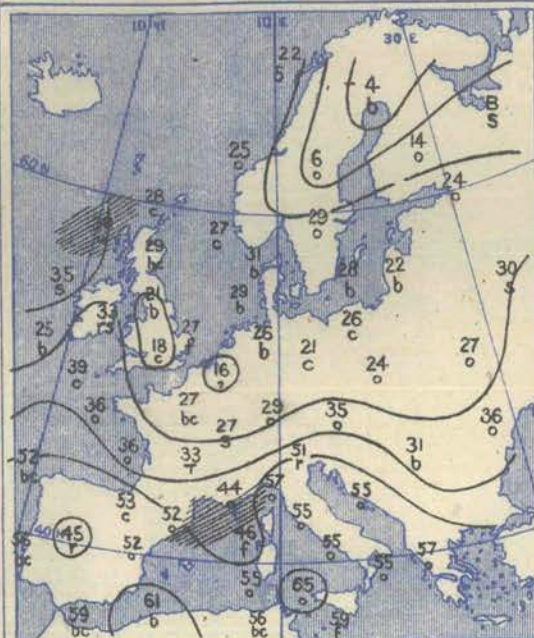
Wind in morning light from North-West at our more northern stations, from West or South-West in Germany, Denmark, and the greater part of Russia and Scandinavia. Light or moderate from East or North-East over the more south-western parts of Europe, and our southern districts. No great change during day, but wind veering to the Northward on the west coast of Norway, and increasing in force.

Barometer highest, 30.0 ins. or a little less over Ireland, the greater part of England, and nearly all the central and south-eastern portions of Europe. Lowest, 29.2 ins. and less in a disturbance off the extreme north-west coast of Norway, and 29.5 ins. and less over Portugal. Northern disturbance moving eastwards later, and that in Portugal travelling northwards; no material change elsewhere.

Thursday, 13th February.

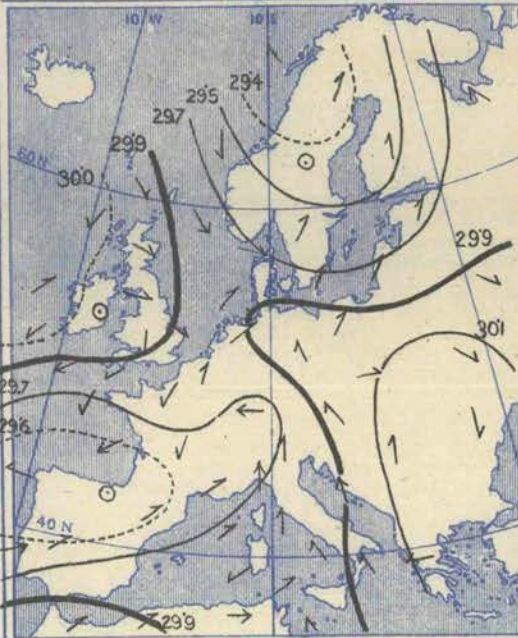
Temperature and Weather.

8 a.m.

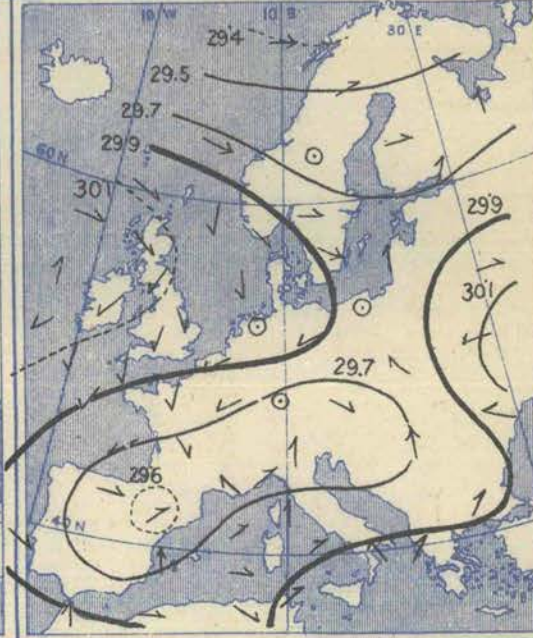


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in many parts of our Islands, Denmark, and Algeria, cloudy or dull elsewhere. Snow falling at some of our own western stations, and also at Bodö, Archangel, and Belfort, and rain at Trieste, Lyons, and Madrid. Fog prevailing over central England and Ireland. Some snow falling subsequently in different parts of our more northern districts, and over northern and central Europe, and rain in the Riviera and Italy.

Temperature fallen in the central countries, risen in the south, and over northern Russia. Readings at 8 a.m. highest, 65° at Palermo, 61° at Algiers, 59° at Malta, and above 59° on most of the Mediterranean and Adriatic shores. Lowest, -4° at Haparanda, zero at Karlstad, +7° at Newton Reigny, 10° at Loughborough, 18° in London, and below 32° in almost all parts of our Islands, and central and northern Europe. Rising to 40° at some of our own west coast stations, but not exceeding 28° at Parsonstown. Maxima of 57° recorded at some southern French stations, and thermometer rising to 70° at Palermo, and to 73° at Algiers.

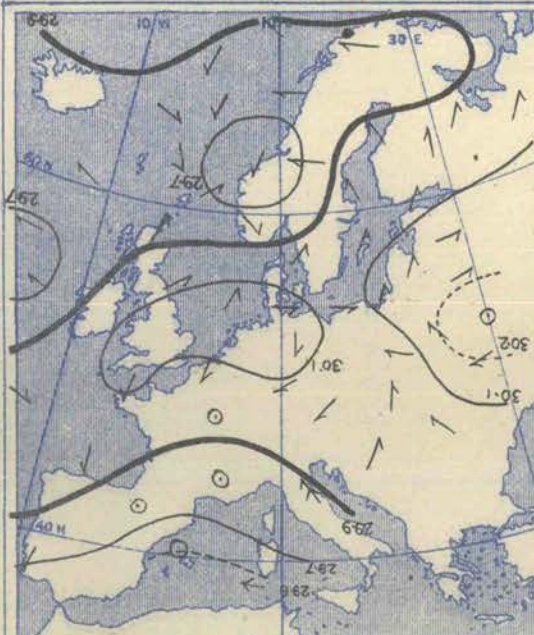
Wind in morning North-Westerly over the north and east of the United Kingdom and Norway, and South-Westerly in Sweden and northern Russia; South-Easterly at Bodö. Easterly or North-Easterly over our southern districts, France, and south Germany; Westerly in the south of Spain and Algeria, and Southerly or South-Easterly in Italy. Fresh in a few places, but light or moderate in force generally. No great change later over our area as a whole, but wind shifting to West at Bodö.

Barometer fallen in most southern and south-western countries, risen over the United Kingdom and Scandinavia. Readings at 8 a.m. highest, 30.1 ins. and upwards in the south-east of Europe, and above 30.0 ins. over Ireland. Lowest, 29.4 ins. and less in the extreme north of Scandinavia, and below 29.5 ins. in an elongated cyclonic system lying over the north of Spain, the south of France, and the southern portion of the Bay of Biscay. Scandinavian disturbance moving away north-eastwards later, and that in the south of Europe moving eastwards. High pressure in south-eastern Europe becoming accentuated.

Friday, 14th February.

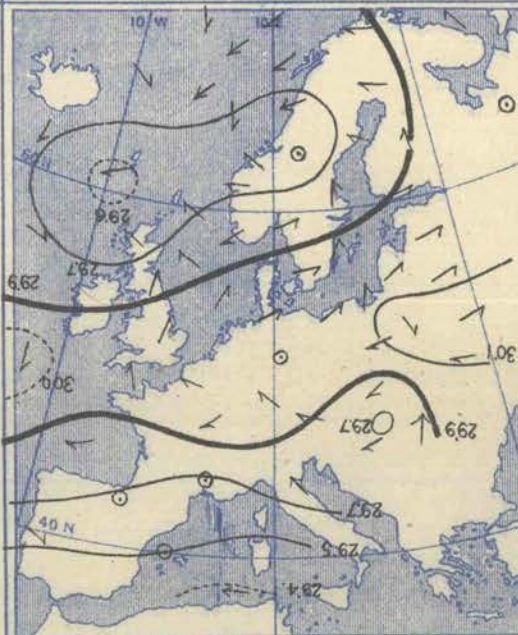
Temperature and Weather.

8 a.m.

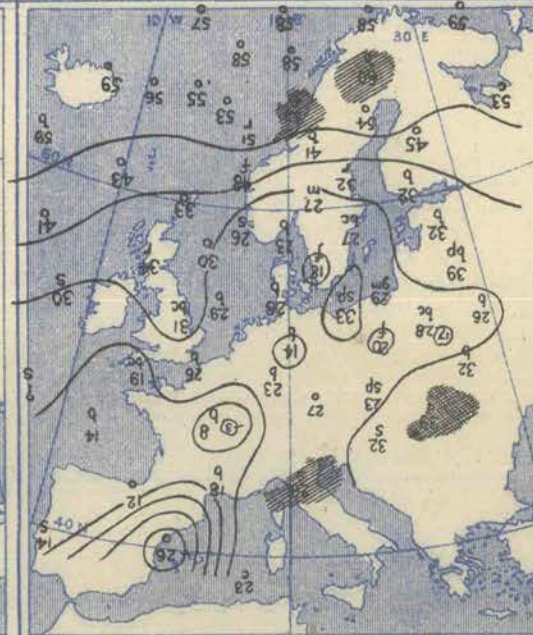


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but fine and bright in different parts of Scandinavia, the Baltic, the United Kingdom, and France. Snow falling over northern and central Russia, as well as at Munich, Christiansund, and Sunburgh Head, and slight showers on our east and south-east coasts. Raining at Malin Head, and over northern Italy. Rain in the Shetlands and Hebrides later, and rain or snow in Austria, and at some southern French stations.

Temperature in morning highest, 60° at Palma, and 58° or 59° over the more southern parts of the Mediterranean and at Constantinople. Lowest, -28° at Haparanda-6° at Uleaborg, and much below the freezing point over northern and central Europe generally. Below 32° in most parts of England and Ireland, as low as 17° at Parsonstown, and 14° at Newton Reigny. Rising during day to 50° at Scilly, and 48° at Blacksod Point, but not exceeding 33° at Dungannon. Maxima 55° at some stations in the south of France, 59° at Rome, 68° at Algiers, and 71° at Palermo.

Wind in morning showing a cyclonic circulation over Scotland, and the Northerly wind blowing strongly in the Hebrides. Light from the North-Eastward or Northward in most parts of England and Ireland, Germany, France, and central Europe, and light to fresh from West or South-West over the Mediterranean and southern Europe; Westerly in Scandinavia. No material change over Europe as a whole during day, but wind veering to the Northward in the east of Scotland, and to West or North-West over the north of England.

Barometer fallen in Scotland, and over central and south-eastern Europe, risen generally elsewhere. Readings at 8 a.m. highest, 30.0 ins. to 30.2 ins. in an area covering Ireland, England, the North Sea, Denmark, and the Baltic. Lowest, 29.7 ins. and less in a small disturbance over Caithness, and also in an irregularly-shaped area stretching from the Gulf of Lion eastwards to Transylvania and the Black Sea. Scotch disturbance moving south eastwards later and that over southern Europe breaking into two separate systems. High pressure area increasing in size.

Saturday, 15th February.

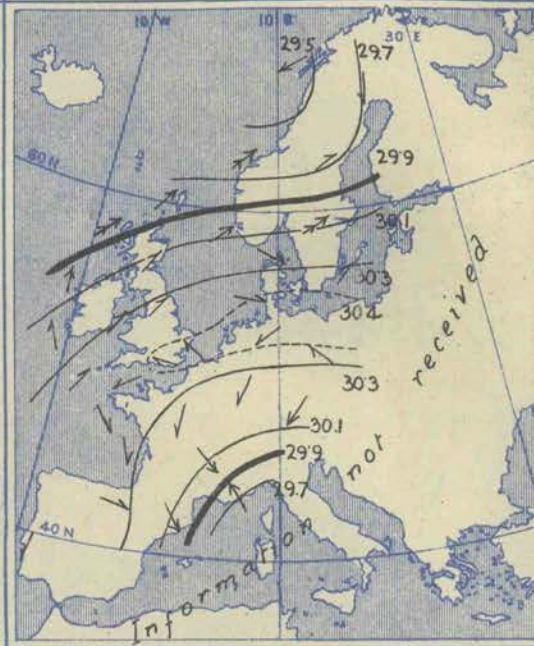
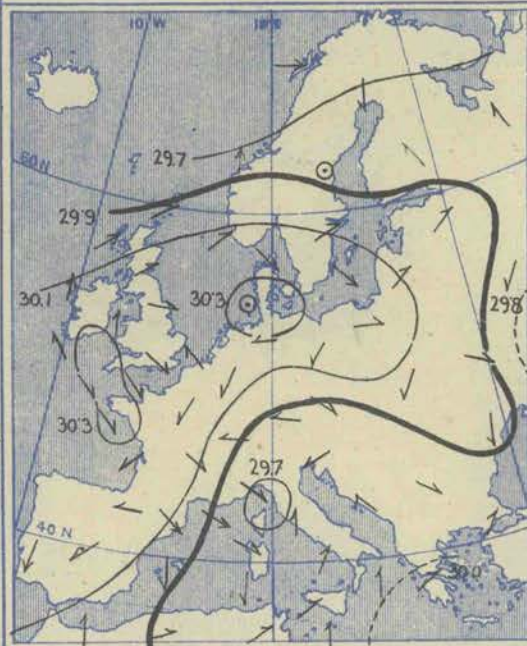
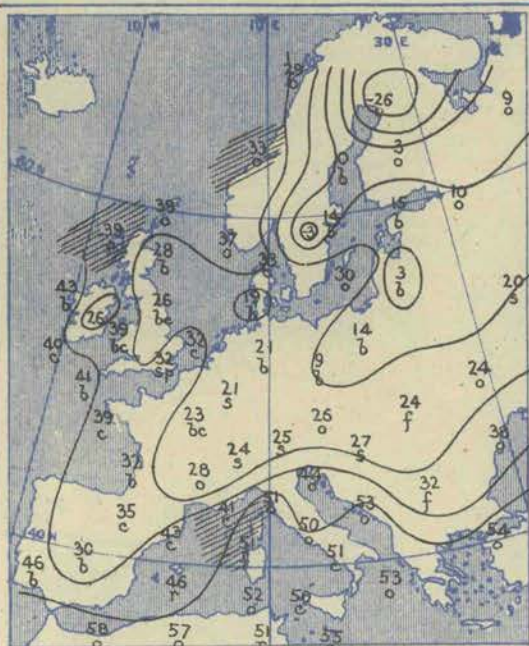
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull generally, but fine and bright in many parts of the United Kingdom, Spain, and north Germany. Snow falling at St. Petersburg, several central European stations, and at Brussels and Cape Gris Nez, and rain at Palma and La Calle. Rain or snow later over the south-east and south of France, and a considerable fall of rain in the Hebrides, Shetlands, and west of Norway.

Temperature fallen in most regions, but risen in the west of Norway and in Ireland. Readings at 8 a.m. highest, 57° or 58° on the Algerian coast, and 54° or 55° at Constantinople and in Greece. Lowest—28° at Haparanda—3° at Uleaborg and Karlstad. Much below the freezing point except over southern Europe and our Atlantic coasts, and as low as 30° at Cape Sicé. Lowest in our Islands, 12° at Newton Reigny. Rising subsequently to 50° at Sicily, 48° at Blacksod Point, and to 52° at Nice, but maximum not exceeding 34° at Yarmouth, and not touching 32° over Holland, Germany, and the central parts of France.

Wind Southerly or South-Westerly over our northern and north-western districts and in Norway, and Northerly in most central countries and over France. A complete cyclonic circulation shown over the Gulf of Genoa and its vicinity. The Southerly and South-Westerly wind increasing to a gale on our western and north-western coasts by evening, and strong South-Westerly gales blowing in the west coast of Norway. Wind also increasing in force in the south-east of France.

Barometer falling on our north-western coasts, and in the west of Norway, rising elsewhere. Morning readings highest, 30.2 ins. to 30.3 ins. in a large area embracing Ireland and England, and stretching eastwards to Prussia, and south-westwards to Spain. Lowest, 29.7 ins. and less in a small but rather deep disturbance over the Gulf of Genoa, and also over Finland. Barometer rising within the high pressure area during day, but falling in Ireland and Scotland. Disturbance in extreme north becoming rather deeper.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: —→ = a light to moderate breeze; —→→ = a heavy gale; —→→→ = a gale; —→→→→ = a fresh to strong breeze; —→→→→→ = a light to moderate breeze; and —→→→→→ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week there has been an absence both of well developed anticyclones and deep cyclonic systems. Pressure was highest at first over southern Europe and subsequently over our islands and central or eastern Europe, while the shallow and generally small disturbances appeared in the northern and southern countries. The wind consequently varied greatly in direction and was light or moderate in force; it blew, however, mainly from some Northerly point in most parts of the United Kingdom, France and Germany, and from the Westward over the southern parts of the Mediterranean and the northern regions of Europe. By the end of the week a cyclonic disturbance of much greater depth had appeared in the extreme north of Scandinavia, and the wind had increased to a fresh or

strong gale from the South-West in the Hebrides and the west of Norway. Temperature has been very low all over the more northern countries, and low readings were occasionally observed in the Riviera and north of Italy. Over the inland and eastern parts of England and Scotland frost was almost continuous and at times very severe. Slight snow was of frequent occurrence in our north-western and northern districts and also in many northern and central parts of the Continent. During the latter half of the week some heavy falls of rain were experienced in different parts of Spain, Italy and the extreme south and south-east of France. By Saturday evening temperature had risen quickly on our own western and northern coasts and in Norway and rain had set in in the Hebrides.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 38.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.
DEERNES	24.2	+ 10.7	39	+ 17	THURCASTON	25.6	+ 10.6	38	+ 15	BOURNEMOUTH	53.9	—	79	—
STRATHPEFFER SPA	32.4	+ 17.2	51	+ 27	MARGATE	34.3	+ 17.0	50	+ 25	SOUTHPORT	26.2	—	40	—
EDINBURGH	35.8	+ 22.0	56	+ 34	BROADSTAIRS	34.5	—	51	—	RHYL	—	—	—	—
MORPETH	41.4	—	64	—	EASTBOURNE	37.1	+ 18.7	55	+ 23	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	29.3	—	45	—	BRIGHTON	29.6	+ 10.8	44	+ 17	ABERDOVEY	49.4†	—	74†	—
YORK	29.0	+ 14.7	44	+ 23	WORTHING	33.4	—	49	—	TENBY	47.8	+ 28.0	71	+ 42
LOWESTOFT	40.3	—	61	—	BOGNOR	36.9†	—	54†	—	NEWQUAY	44.7	+ 25.1	66	+ 38
HOLLESLEY BAY	39.1	—	58	—	WATERGATE	33.8	—	50	—	TORQUAY	49.1	+ 31.1	72	+ 46
SHEFFIELD	19.6	—	29	—	WESTBOURNE	31.8†	+ 12.5	47†	+ 19	CAHIR (Duneske)	37.0†	—	55†	—
WORKSOP	26.2	+ 11.8	39	+ 18	VENTNOR HOSPITAL	44.1	+ 24.4	65	+ 36	GUERNSEY	29.4†	+ 7.7	43†	+ 12

† The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

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WEEK ENDING SATURDAY, FEBRUARY 22ND, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The Daily Mean is obtained from the maxima and minima by applying a suitable correction determined for each month. The Mean for the Week is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The Means with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The Mean Amounts are those for the corresponding periods in the thirty-five years 1866-1900, but the Mean numbers of Rainy Days are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The Mean Values employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 44.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	25	43.0	35.2	39.0	1 above	Day-deg. 3	Day-deg. - 5	Day-deg. 24	Day-deg. - 12	Day-deg. 34	Day-deg. - 19	Day-deg. 406	Day-deg. + 119
	1. SCOTLAND, EAST	46	18	39.5	29.4	34.4	4 below	0	- 10	53	+ 13	39	- 27	435	+ 103
	2. ENGLAND, N.E.	45	19	37.4	29.3	33.4	6 below	0	- 12	60	+ 27	77	+ 7	322	+ 39
	3. ENGLAND, EAST	53	10	39.7	28.2	34.0	5 below	0	- 14	56	+ 19	85	+ 9	319	+ 3
	4. MIDLAND COUNTIES	49	11	38.0	27.3	32.7	7 below	0	- 15	65	+ 29	83	- 7	343	+ 23
5. ENGLAND, SOUTH	51	15	39.3	29.5	34.7	6 below	0	- 17	51	+ 24	86	- 22	255	+ 11	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	45	19	40.4	34.2	37.3	3 below	0	- 11	33	+ 5	66	- 15	311*	+ 77
	7. ENGLAND, N.W.	48	12	38.8	29.1	34.0	6 below	0	- 12	56	+ 29	68	- 16	295	+ 64
	8. ENGLAND, S.W.	50	19	41.5	31.4	36.5	5 below	0	- 19	39	+ 17	106	- 28	230	+ 50
	9. IRELAND, NORTH	51	25	43.8	36.3	40.1	1 below	5	- 11	22	- 1	72	- 40	236	+ 36
	10. IRELAND, SOUTH	54	25	47.1	38.7	42.9	0 (average)	20	- 3	9	- 8	127	- 44	170	+ 20
	- CHANNEL ISLANDS	52	26	44.8	36.7	40.3	4 below	8	- 18	21	+ 12	191	- 7	94	+ 18

DISTRICTS. (See p. 44.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	4	7 less	41	+ 3	9.0	- 0.5	7	- 8	10	- 12	85	+ 12	10	+ 2
	1. SCOTLAND, EAST	3	2	4 less	27	- 4	2.6	- 2.3	5	- 13	7	- 20	98	- 1	22	0
	2. ENGLAND, N.E.	4	2	3 less	23	- 6	2.1	- 1.3	8	- 7	12	- 10	100	+ 4	21	+ 1
	3. ENGLAND, EAST	2	2	2 less	23	- 8	1.7	- 1.7	21	- 3	30	- 3	136	+ 6	24	+ 1
	4. MIDLAND COUNTIES	3	2	3 less	21	- 8	2.2	- 2.0	11	- 5	16	- 7	95	+ 3	23	+ 2
5. ENGLAND, SOUTH	2	3	2 less	20	- 10	2.3	- 2.2	22	+ 1	30	+ 2	128	+ 7	24	+ 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	8	2 less	33	- 3	7.1	- 2.3	1	- 15	2	- 21	85	- 2	18	- 1
	7. ENGLAND, N.W.	2	2	3 less	28	- 4	3.9	- 1.4	11	- 6	16	- 8	104*	+ 11	22	+ 2
	8. ENGLAND, S.W.	3	3	5 less	25	- 9	3.3	- 3.3	9	- 12	13	- 17	122	+ 3	25	+ 1
	9. IRELAND, NORTH	4	6	0 (average)	34	- 2	5.3	- 0.2	1	- 16	2	- 23	82	- 18	17	- 4
	10. IRELAND, SOUTH	5	14	6 more	26	- 10	4.9	- 2.4	6	- 12	8	- 19	111	- 5	23	- 1
	- CHANNEL ISLANDS	3	2	4 less	31	- 5	3.6	- 2.2	12	- 9	16	- 13	113	- 36	20	- 8

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period differed considerably in various parts of the Kingdom. Rain was rather frequent in Ireland and the north-east of England, and that in the former country was at times heavy, but over Great Britain as a whole the conditions were much drier, the rain experienced mostly falling at the close of the week.

Temperature was higher than during the preceding week, but in all districts excepting Scotland N. and Ireland S. it was again below the normal. The deficit was as much as 7° in the Midland Counties and 6° in England N.E., S., and N.W., whence it decreased to 3° in Scotland W., and 1° in Ireland N. The highest of the maxima were registered early in the week at some extreme north-western and western stations, but on Saturday over the Kingdom generally. They ranged from 54° in Ireland S., and 53° in England E., to 45° in England N.E., and Scotland W. Over Eastern and Inland England the daily maxima were often below 35°; at Shaftesbury on Tuesday the thermometer did not exceed 32°. The absolute minima occurred, except at some Scotch stations, during the earlier days of the week. They were as low as 10° in England E., 11° in the Midland Counties, and England N.W., and 15° in England S., while elsewhere they ranged from 18° in Scotland E. to 25° in Ireland and in Scotland N., and to 26° in the Channel Islands.

Rainfall was much less than the mean in the majority of Districts, but it just equalled it in Ireland N. and considerably exceeded it in Ireland S.

Bright Sunshine was very little prevalent over the Kingdom as a whole, but was slightly in excess of the mean amount in England S. The percentages of the possible duration ranged from 30 in England S. and E., to 16° in the Midland Counties, England N.W., and the Channel Islands, and to only 2° in Scotland W. and Ireland N.

Barometer and Wind.—During the whole of this period pressure was highest either to the eastward or northward of our Islands, and although no disturbances appeared directly over the Kingdom, a deep system causing strong winds or gales from the Southward in the west was skirting our west and north-west coasts at the commencement of the week, and later on our extreme south-western and western Districts were at times affected by other disturbances. The winds were consequently mainly Easterly over the east and South of England, and South-Easterly to Southerly in the western and northern parts of the Kingdom. By the end of the week, however, when the high pressure area had moved to a more southerly position, the wind had shifted to the Southward very generally, and was blowing strongly in the south-west.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.														
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N	Sumburgh Head	43	37	40.7	37.7	39.2	+ 1.0	0	20	5	1.15	+ 0.41	*	*	*	*
	Stornoway	48	30	44.4	35.9	40.2	+ 1.2	7	23	3	0.55	- 0.38	7.6	- 9.4	11	- 14
	Wick	44	34	42.0	36.0	39.0	+ 0.8	0	21	2	0.22	- 0.29	*	*	*	*
	Lairg	49	25	44.2	30.3	37.3	+ 1.6	6	43	2	0.15	- 0.58	*	*	*	*
	Glencarron	46	28	42.4	34.8	38.6	+ 1.5	1	25	2	0.10	- 1.57	*	*	*	*
	Fort Augustus	46	29	43.7	34.9	38.6	+ 0.1	5	21	1	0.17	- 0.76	7.8	- 3.7	12	- 5
	Fort William	47	35	43.7	37.0	40.4	+ 1.2	5	19	4	0.20	- 1.63	7.6	- 7.1	11	- 10
1. SCOTLAND, E.	Nairn	46	26	44.3	29.7	37.0	- 1.3	6	45	2	0.17	- 0.22	*	*	*	*
	Aberdeen	42	28	39.7	33.3	36.5	- 2.0	0	39	4	0.10	- 0.45	- 2.7	- 17.3	4	- 26
	Braemar	40	20	37.2	29.5	33.4	- 1.4	0	60	1	0.02	- 0.66	*	*	*	*
	Ochertyre	41	22	37.4	28.9	33.2	- 5.0	0	62	5	0.56	- 0.28	*	*	*	*
	Leith	45	19	40.6	28.4	34.5	- 5.5	0	53	2	0.20	- 0.16	*	*	*	*
	Marchmont	41	18	37.6	26.3	32.0	- 5.7	0	70	3	0.11	- 0.47	8.8	- 9.5	13	- 14
2. ENGLAND N.E.	Alnwick Castle	43	19	37.7	27.1	32.4	- 6.2	0	67	4	0.16	- 0.38	*	*	*	*
	Durham	40	19	35.5	27.8	31.7	- 6.7	0	72	4	0.08	- 0.32	9.6	- 8.4	14	- 12
	Shields	44	24	38.3	29.3	33.8	- 5.7	0	57	3	0.07	- 0.30	*	*	*	*
	Scarborough	45	21	38.5	30.9	34.7	- 4.8	0	51	5	0.20	- 0.24	5.7	-	8	-
	Spurn Head	41	24	37.0	31.3	34.2	- 5.2	0	55	2	0.11	- 0.22	*	*	*	*
	Fulbeck (Lincolnshire)	44	?	37.9	?	?	?	?	?	3	0.36	- 0.01	*	*	*	*
3. ENGLAND, E.	Hillington	51	10	40.5	27.2	33.9	- 5.1	0	57	4	0.31	- 0.13	14.3	- 5.2	20	7
	Yarmouth	40	26	37.7	31.3	34.5	- 4.1	0	53	1	0.08	- 0.37	*	*	*	*
	Geldeston	48	12	39.8	27.6	33.7	- 5.8	0	58	3	0.10	- 0.26	19.5	- 0.6	28	- 1
	Cambridge	53	13	42.5	27.1	34.8	- 4.6	1	53	3	0.38	+ 0.04	21.0	+ 1.0	30	+ 2
	Felixstowe	43	22	38.9	30.5	34.7	- 4.7	0	51	2	0.04	-	27.9†	-†	40†	-†
	Rothamsted	48	12	38.9	25.6	32.3	- 6.5	0	68	1	0.18	- 0.29	14.5	- 4.6	20	- 6
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	43	11	38.1	27.1	32.6	- 6.8	0	66	3	0.18	- 0.20	*	*	*	*
	Loughborough	44	14	37.7	26.0	31.9	- 7.7	0	71	4	0.21	- 0.22	*	*	*	*
	Colly Weston (Stamford)	46	18	41.3	28.0	34.7	- 3.8	0	51	5	0.30	-	*	*	*	*
	Cheadle	44	20	35.7	27.3	31.5	- 6.7	0	74	5	0.28	- 0.29	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	44	21	37.0	28.7	32.9	- 6.5	0	64	1	0.18	- 0.23	4.8	-	7	-
	Churchstoke	44	17	37.0	27.3	32.2	- 6.8	0	69	3	0.08	- 0.51	9.6	- 9.1	14	- 13
5. ENGLAND, S.	Hereford	46	18	37.5	26.8	32.2	- 7.8	0	69	1	0.04	- 0.46	*	*	*	*
	Cirencester	47	17	38.3	26.4	32.4	- 6.3	0	67	2	0.20	- 0.37	10.7	- 9.3	15	- 13
	Oxford	49	19	39.6	28.0	33.8	- 6.2	0	57	2	0.28	- 0.16	16.0	- 2.5	23	- 3
	London	51	17	41.3	26.7	34.0	- 6.7	0	56	2	0.20	- 0.20	7.1†	- 4.3†	10†	- 6†
	Swarraton (Alresford)	48	15	39.4	26.7	33.1	- 5.9	0	62	3	0.31	- 0.12	*	*	*	*
	Dungeness	45	21	39.7	30.1	34.9	- 5.5	0	50	1	0.17	- 0.16	27.4	-	39	-
6. SCOTLAND, W.	Hastings (St. Leonards)	45	21	39.0	30.6	34.8	- 5.8	0	50	4	0.32	- 0.19	30.9	+ 8.3	44	+ 12
	Southampton	48	22	40.4	31.0	35.7	- 5.9	0	44	2	0.32	- 0.25	17.5	- 3.0	25	- 4
	Portland Bill	46	29	41.3	33.4	37.4	- 5.4	0	32	2	0.38	-	*	*	*	*
	Shaftesbury	49	23	37.3	28.0	32.7	- 6.7	0	65	3	0.42	- 0.20	*	*	*	*
	Laudale (Loch Sunart)	45	37	42.4	37.6	40.0	- 0.3	1	16	4	0.42	- 1.17	*	*	*	*
	Glasgow	43	29	39.2	33.8	36.5	- 2.7	0	39	2	0.40	- 0.34	0.5	- 11.8	1	- 16
7. ENGLAND, N.W.	Cally	42	19	40.0	30.6	35.3	- 3.9	0	47	4	1.65	+ 0.68	*	*	*	*
	Douglas (Isle of Man)	42	30	39.9	34.9	37.4	- 3.5	0	32	3	0.80	0.00	2.3	- 16.7	3	- 25
	Newton Reigny	48	12	40.0	25.7	32.9	- 4.6	0	64	1	0.05	-	10.5	-	15	-
	Stonyhurst	42	23	36.3	30.0	33.2	- 5.9	0	62	2	0.16	- 0.67	8.0	- 8.6	12	- 11
	Blackpool	45	22	38.9	28.5	33.7	- 5.9	0	58	3	0.36	- 0.18	9.2	- 7.8	13	- 11
	Manchester (Prestwich)	44	21	37.2	29.6	33.4	- 5.7	0	60	1	0.27	- 0.27	1.4	-	2	-
8. ENGLAND, S.W.	Liverpool Obsy. (Bidston)	41	20	36.6	27.3	32.0	- 8.3	0	70	2	0.48	+ 0.05	6.7	-	10	-
	Chester	46	17	37.9	26.0	32.0	- 9.3	0	70	4	0.38	-	*	*	*	*
	Llandudno	46	26	41.2	32.3	36.8	- 5.2	0	36	2	0.11	- 0.42	18.0	- 1.1	26	- 1
	Holyhead	46	32	42.0	33.7	37.9	- 4.0	0	29	2	0.13	- 0.46	*	*	*	*
	Llandovery	50	19	42.0	27.6	34.8	- 4.8	0	50	1	0.07	- 0.88	*	*	*	*
	Pembroke	47	34	42.1	35.9	39.0	- 3.5	0	21	2	0.63	0.00	4.0	- 17.0	6	- 23
9. IRELAND, N.	Clifton	48	22	38.7	29.0	33.9	- 7.4	0	57	1	0.17	- 0.46	*	*	*	*
	Bath	48	21	39.9	28.3	34.1	- 7.4	0	55	4	0.07	-	11.8	-	17	-
	Arlington (N. Devon)	48	24	40.1	29.4	34.8	- 6.0	0	50	1	0.18	- 0.81	*	*	*	*
	Cullompton	48	22	40.6	28.5	34.6	- 6.9	0	52	3	0.22	- 0.47	10.5	- 8.6	15	- 11
	Falmouth	50	33	44.3	38.7	41.5	- 2.5	6	13	3	0.65	- 0.27	3.2	- 19.1	5	- 26
	Plymouth	47	28	44.3	34.1	39.2	- 3.7	6	29	3	0.47	- 0.23	13.1	- 8.1	18	- 11
10. IRELAND, S.	Malin Head	48	32	43.4	34.4	38.9	- 2.8	4	28	5	0.19	-	*	*	*	*
	Edenfel (Omagh)	47	25	42.3	32.7	37.5	- 1.8	1	33	4	0.90	+ 0.30	*	*	*	*
	Blacksod Point	51	35	47.9	40.3	44.1	+ 1.1	22	5	5	0.71	-	*	*	*	*
	Markree Castle	50	35	44.9	38.2	41.6	+ 0.7	8	16	3	0.82	+ 0.12	0.7	- 16.7	1	- 24
	Armagh	47	35	42.4	36.5	39.5	- 1.0	1	20	4	0.57	+ 0.03	1.4	- 15.7	2	- 23
	Donaghadee	46	29	41.9	35.7	38.8	- 2.5	0	22	3	0.43	- 0.12	*	*	*	*
CHANNEL ISLANDS	Dublin	50	35	45.1	37.9	41.5	- 1.1	9	17	3	0.16	- 0.34	5.9	- 13.6	8	- 20
	Parsonstown	50	25	46.3	35.3	40.8	- 0.5	12	26	4	0.71	+ 0.20	1.2	- 17.1	2	- 24
	Kilkenny	49	25	45.0	36.7	40.9	- 1.0	8	21	4	0.80	+ 0.20	*	*	*	*
	Roche's Point	50	32	46.9	40.7	43.8	- 0.2	18	4	6	2.12	+ 1.14	*	*	*	*
	Valencia	54	40	51.0	42.7	46.9	+ 1.9	34	0	7	3.06	+ 1.89	12.3	- 7.7	18	- 11
	Killarney	?	39	?	41.9	?	?	?	?	3	1.85	+ 0.67	*	*	*	*
	Foynes	51	26	48.3	39.1	43.7	+ 0.7	24	8	5	0.79	+ 0.06	*	*	*	*
	Scilly (St. Mary's)	52	38	47.7	40.9	44.3	- 1.4	21	3	4	0.17	- 0.46	3.0	-	4	-
	Jersey	48	26	41.9	32.4	37.2	- 6.3	0	34	2	0.28	- 0.31	15.8	- 9.5	22	- 13

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

Asterisk is inserted in all places for which the information is not usually received.

The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake

Sunday, 16th February.

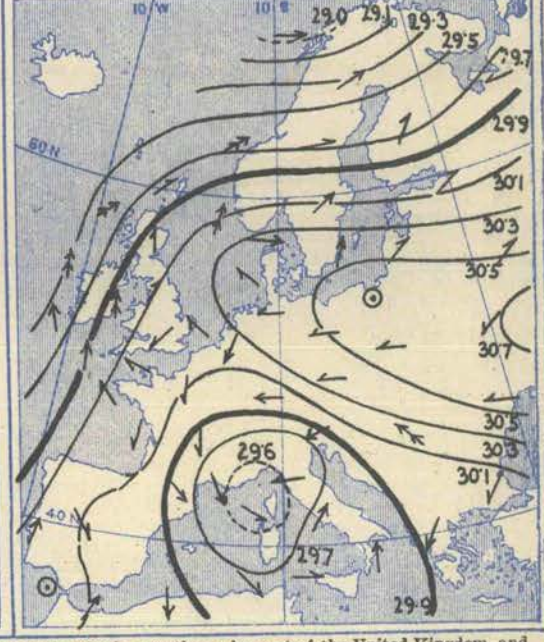
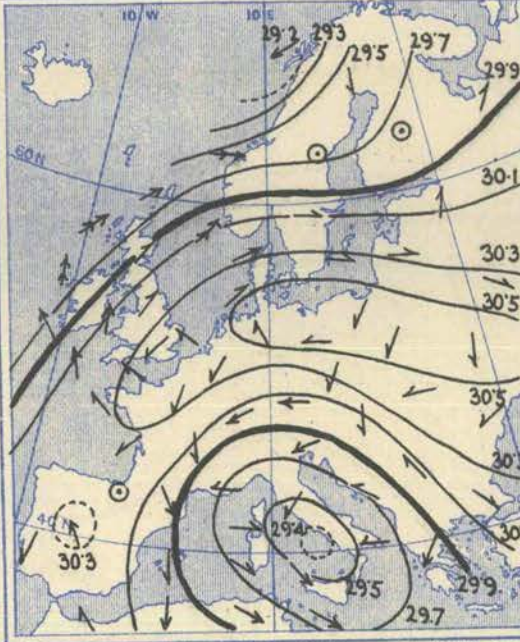
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over England, Germany, the Netherlands, and the north and west of France; cloudy or dull elsewhere. Rain falling in the Shetlands and Hebrides, and many parts of southern Europe and the Mediterranean, and snow at Bodø, Kuopio, St. Petersburg, Lyons, and Turin, as well as at Aumale (inland Algeria). Heavy rain experienced in Ireland and the north-west of Scotland later, and heavy rain or snow in the west of Norway. Rain also falling in most parts of southern Europe.

Temperature risen very quickly in Sweden, Finland, the Baltic Provinces, and at some of our own northern and western stations; fallen quickly in Algeria. Readings at 8 a.m. highest, 60° at Lésina, and 55° at Athens and Brindisi. Lowest, -8° at Haparanda, +6° at Archangel, 11° at Moscow, 12° at Warsaw, 14° at Brussels and Frankfurt, and 18° at Paris and in London. As low as 41° at Tunis, 44° at Algiers, and 28° at Aumale. Remaining below 32° in many parts of France and Germany all day, but rising to 57° at Naples, 61° at Oran, and 70° at Nemours. Highest maxima in our Islands, 48° on the west coast of Ireland, and 46° at Scilly.

Wind in morning South-Easterly to Southerly over the major part of the United Kingdom, and South-Westerly or Westerly over the northern countries. Strong to a gale in force on our western and north-western coasts, and also in the west of Norway. A separate cyclonic circulation of moderate to strong winds over and in the neighbourhood of Italy and the Tyrrhenian Sea. Very little change over our Islands and northern Europe later; centre of the Mediterranean circulation becoming transferred to the Gulf of Genoa.

Barometer fallen decidedly along our western and northern coasts and in Norway, as well as in Italy. Readings at 8 a.m. highest, 30.5 ins. and upwards in a zone stretching from Holstein east-south-eastwards to Little Russia. Lowest, below 29.2 ins. in a large and deep disturbance over the extreme north-west of Norway, and below 29.4 ins. in a similar system having its centre near Naples. Northern disturbance increasing in depth and moving eastwards later, but that in south becoming less deep and apparently moving north-westwards. Cyclonic systems in Atlantic skirting our extreme western coasts.

Monday, 17th February.

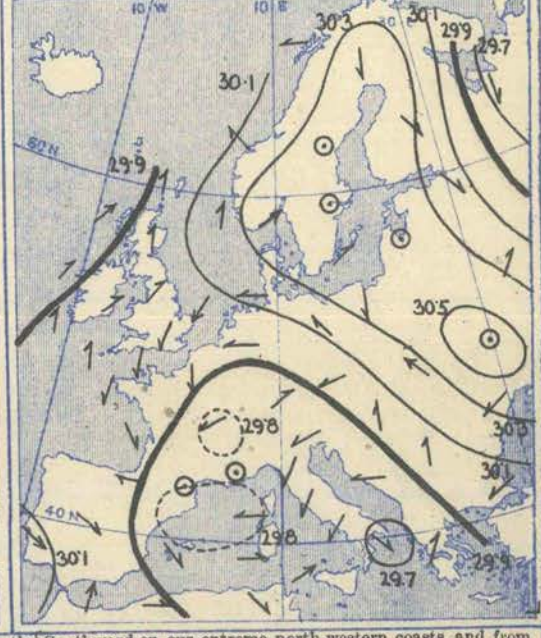
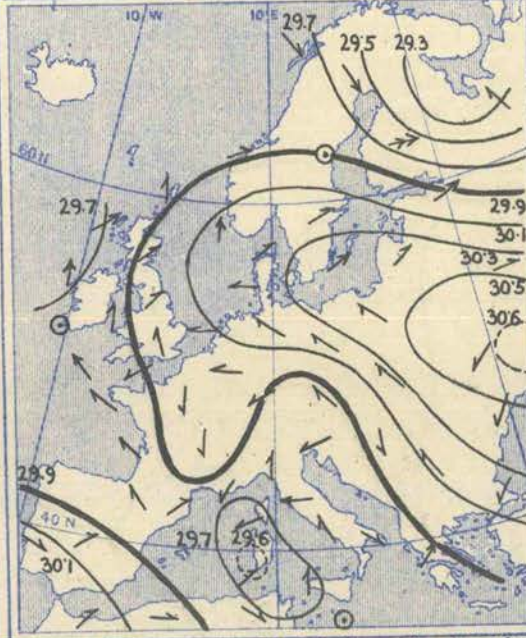
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in Denmark, in several parts of Scandinavia, England, and the Netherlands; cloudy or overcast in almost all other regions. Rainy in Ireland, at some Spanish stations and Oran, and snow falling at Helsingfors and Archangel. Slight rain later in different parts of Italy, and rather heavy falls at Biarritz, Bilbao, and Aumale.

Temperature at 8 a.m. highest, 62° at Athens, 59° at Nemours, and 55° at Lisbon and San Fernando. Lowest (1) 14° at Uleaborg, 15° at Archangel, 24° over central Russia; (2) 21° at Fano; (3) 16° at Brussels, 19° at Paris and Limoges, 27° at Perpignan; (4) 15° to 20° over central England. Subsequently increasing to 53° at Valencia (Ireland), 50° at Nice, and to 68° at Cagliari and Algiers. Not exceeding 30° at Paris all day, and scarcely exceeding 32° in many parts of central Europe. Remaining below 35° on the east coast of England.

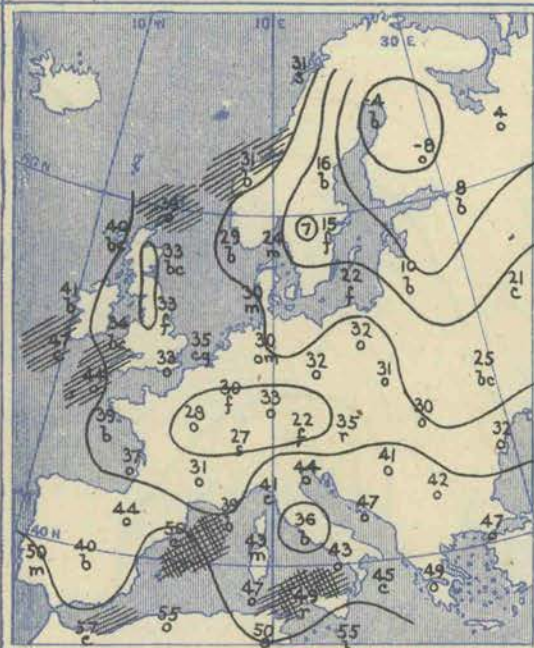
Wind in morning strong from the Southward on our extreme north-western coasts, and from South-East on our south-western coasts; Westerly in Spain and Portugal. Light from the Eastward over central Europe, and in the east and south of England. Strong to a gale from North-West or West in Finland, and light from South-East at Archangel. A complete cyclonic circulation of light to fresh winds around the Island of Sardinia. South-Easterly wind on our south-west coasts dying out during day, and Southerly winds in the north-west veering a little and decreasing in force. Southern cyclonic circulation becoming transferred to the Gulf of Taranto and Albania.

Barometer at 8 a.m. highest, 30.4 ins. over central and southern Russia, and 30.1 ins. over the south-west of Spain and Morocco. Lowest, 29.3 ins. and less in the neighbourhood of the White Sea; below 29.6 ins. in a small disturbance near Cagliari; below 29.7 ins. off our own western and north-western coasts, and less than 29.8 ins. over the Bay of Biscay. Barometer rising in most regions during day, and small system in Mediterranean moving eastwards. Other shallow disturbances appearing over France and the Gulf of Lion.

Tuesday, 18th February.

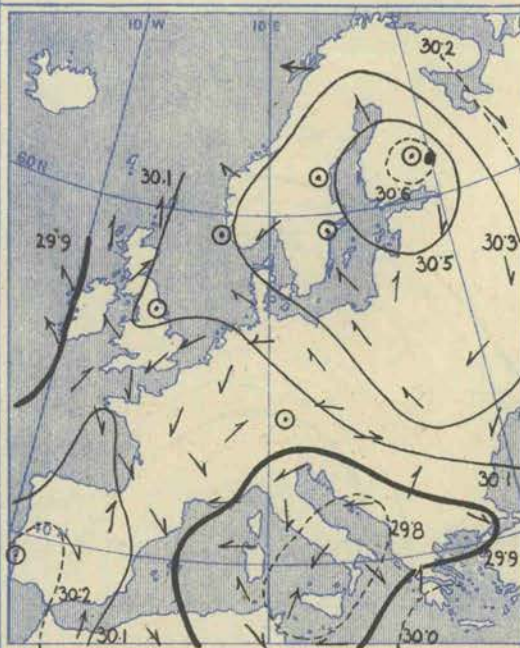
Temperature and Weather.

8 a.m.

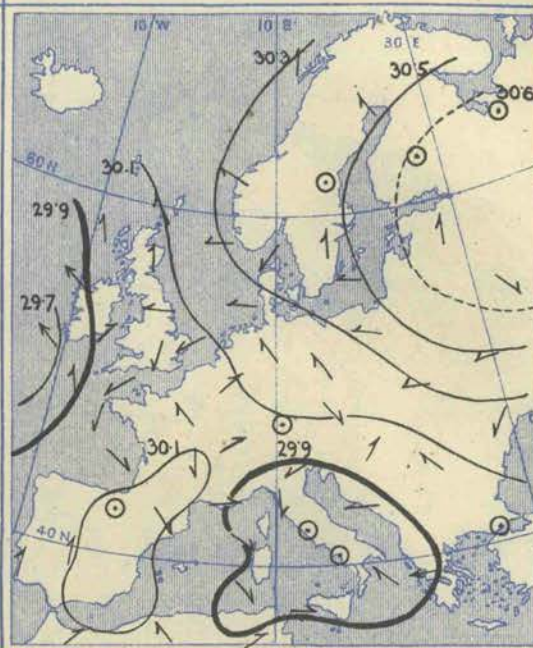


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull very generally, but fine and bright in Scotland, and at some stations in northern Europe. Fog and slight drizzle prevailing over central England, rain at Palermo, and snow at Bodø and Belfort. Some rain subsequently falling at several of our western and northern stations; snow or rain in the extreme north of Scandinavia, and considerable rain in some parts of Austria, Italy, and Portugal.

Temperature fallen over northern Europe—rapidly in Finland—risen in most southern countries. Readings at 8 a.m. highest, 57° in western Algeria, and 51° at Palma. Lowest—8° at Kuopio, -4° at Uleaborg, +4° at Archangel, 7° at Karl's ad, and 8° at St. Petersburg. Lowest in our Islands, 22° at Liverpool and Newton Reigny. Rising during day to 50° or 51° on our extreme south-western coasts, to a slightly higher value in most parts of Italy, and to between 54° and 65° on the coast of Algeria. Not exceeding 34° at Liverpool, nor 33° at Paris.

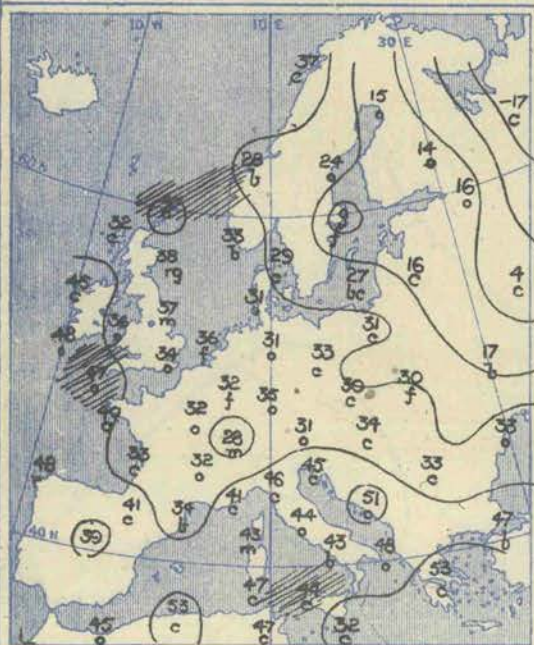
Wind in morning light and anticyclonic over the north of Europe, but drawing into North-Easts over England, to South-East in Ireland, and to South in Scotland. A light cyclonic circulation prevailing over Italy and southern Europe generally, but wind in the Iberian Peninsula and France light and variable; no material change taking place during day.

Barometer risen in most districts—very rapidly in Finland—but fallen in the eastern and south-eastern countries. Readings in morning highest, 30.5 ins. to 30.6 ins. and upwards over Finland, and above 30.2 ins. over Portugal. Lowest, 29.8 ins. and less in a shallow disturbance over Italy and its neighbourhood, and below 29.9 ins. off our own western coast. Northern anticyclone extending eastwards later, but high pressure in Portugal giving way. Italian disturbance becoming rather less deep; barometer falling rather decidedly on our own west coasts.

Wednesday, 19th February.

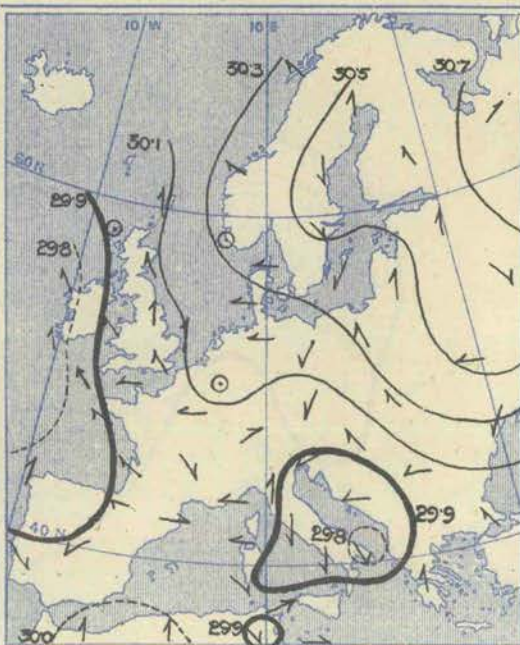
Temperature and Weather.

8 a.m.

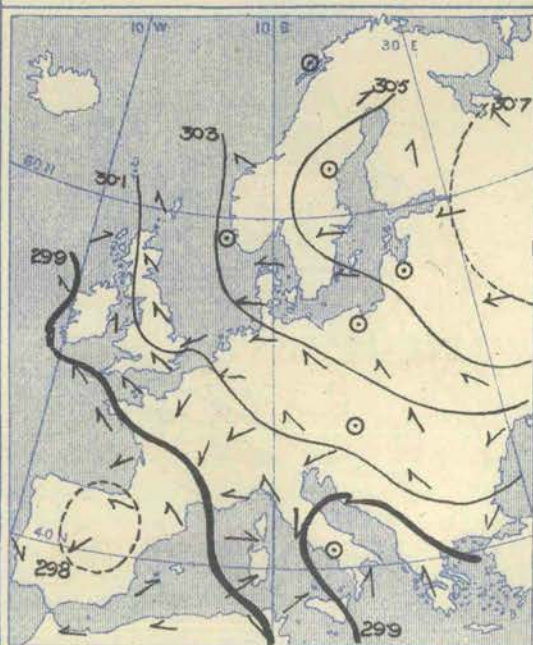


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in almost all places. Rain falling at Aberdeen, showers at Roche's Point, and slight drizzle over central England. Rainy at Corunna and Pesaro also. Some rain occurring later in various parts of southern Europe, and in western Algeria, and slight snow at Archangel and Vienna.

Temperature changed irregularly. Readings at 8 a.m. highest, 53° at Athens and Algiers, 52° at Malta, and 50° at Barcelona. Highest in our Islands, 48° at Valencia. Lowest (1) -17° at Archangel, +9° at Stockholm, and between 14° and 17° over nearly the whole of Russia; (2) 23° at Belfort, 33° at Turin, and 34° at Perpignan. Rising during day to 54° at Valencia (Ireland), Nice, and Naples, to 60° at Cagliari, and to 65° at Algiers. Not exceeding 35° or 36° over central England.

Wind at 8 a.m. South Easterly to Southerly over the United Kingdom, and strong or fresh at some western and south-western stations. Light from East or North-East over the central countries and France. Light anticyclonic airs prevailing in north and north-east of Europe and variable cyclonic winds in Italy and the Mediterranean. Not much change later, but wind backing a little over our Islands, and a feeble cyclonic circulation setting in over Spain.

Barometer falling somewhat in the extreme west and south-west of our area, rising elsewhere—quickly in the extreme north and east. Readings at 8 a.m. ranging from 30.7 ins. and upwards in the north-east of Russia to below 29.9 ins. in shallow disturbances over Italy and the Adriatic, and over Tunis, and to less than 29.8 ins. to the westward of Ireland. Italian system dispersing by evening, and that over Tunis apparently moving westwards. A shallow disturbance appearing over Spain. Barometer rising along our own Atlantic seaboard.

WEEKLY WEATHER REPORT,

VOL. XIX., No. 7, 1902.

CORRECTION REQUIRED ON PAGE 41.

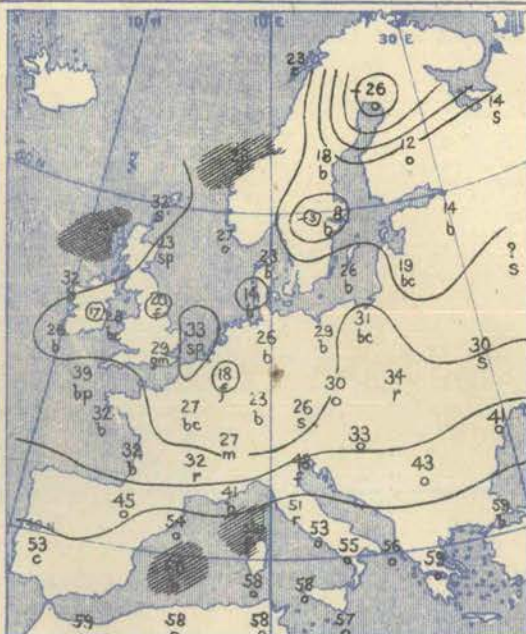
Owing to a printer's error the lines and figures on the three charts for FRIDAY, 14TH FEBRUARY were reversed in the copies as first issued.

They are correct in the re-print given below, which please substitute for the original.

Friday, 14th February.

Temperature and Weather.

8 a.m.

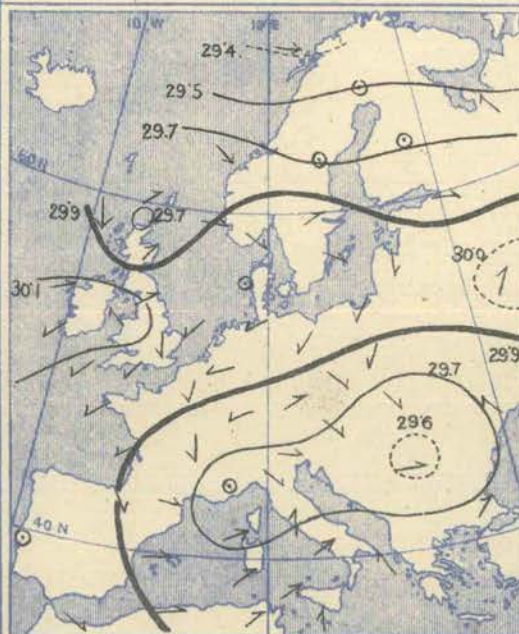


Weather in morning cloudy or dull generally, but fine and bright in different parts of Scandinavia, the Baltic, the United Kingdom, and France. Snow falling over northern and central Russia, as well as at Munich, Christiansund, and Sumburgh Head, and slight snow showers on our east and south-east coasts. Raining at Malin Head, and over northern Italy. Rain in the Shetlands and Hebrides later, and rain or snow in Austria, and at some southern French stations.

Temperature in morning highest, 60° at Palma, and 58° or 59° over the more southern parts of the Mediterranean and at Constantinople. Lowest—26° at Haparanda—6° at Uleaborg, and much below the freezing point over northern and central Europe generally. Below 32° in most parts of England and Ireland, as low as 17° at Parsonstown, and 14° at Newton Reigny. Rising during day to 50° at Scilly, and 48° at Blacksod Point, but not exceeding 33° at Dungeness. Maxima 55° at some stations in the south of France, 59° at Rome, 68° at Algiers, and 71° at Palermo.

Barometer and Wind.

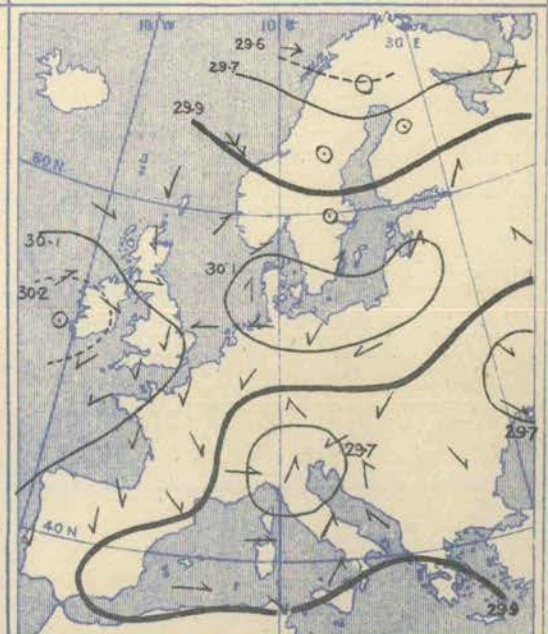
8 a.m.



Wind in morning showing a cyclonic circulation over Scotland, and the Northerly wind blowing strongly in the Hebrides. Light from the North-Eastward or Northward in most parts of England and Ireland, Germany, France, and central Europe, and light to fresh from West or South-West over the Mediterranean and southern Europe; Westerly in Scandinavia. No material change over Europe as a whole during day, but wind veering to the Northward in the east of Scotland, and to West or North-West over the north of England.

Barometer fallen in Scotland, and over central and south-eastern Europe, risen generally elsewhere. Readings at 8 a.m. highest—30.0 ins. to 30.2 ins. in an area covering Iceland, England, the North Sea, Denmark, and the Baltic. Lowest, 29.7 ins. and less in a small disturbance over Caithness, and also in an irregularly-shaped area stretching from the Gulf of Lion eastwards to Transylvania and the Black Sea. Scotch disturbance moving south eastwards later and that over southern Europe breaking into two separate systems. High pressure areas increasing in size.

6 p.m.



WEEKLY WEATHER REPORT

For the week ending June 11

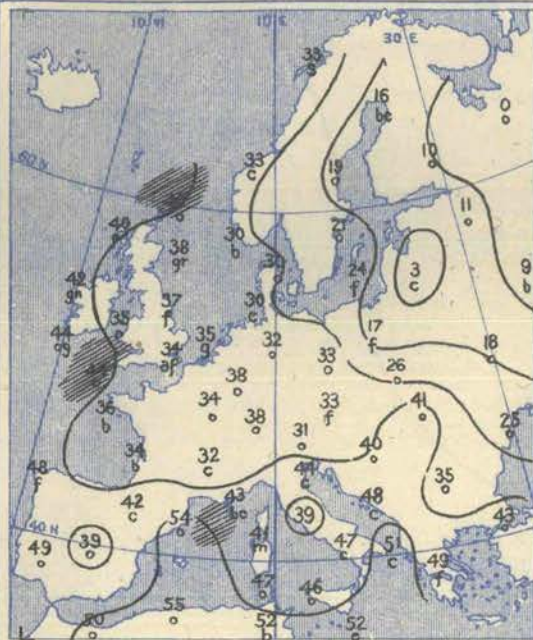
During the week the temperature was mostly in the 70's and 80's with a few 90's. The humidity was moderate to heavy. The wind was mostly light to moderate. The sky was mostly clear to partly cloudy. The precipitation was light to moderate. The overall weather was pleasant.

For the week ending June 11

Thursday, 20th February.

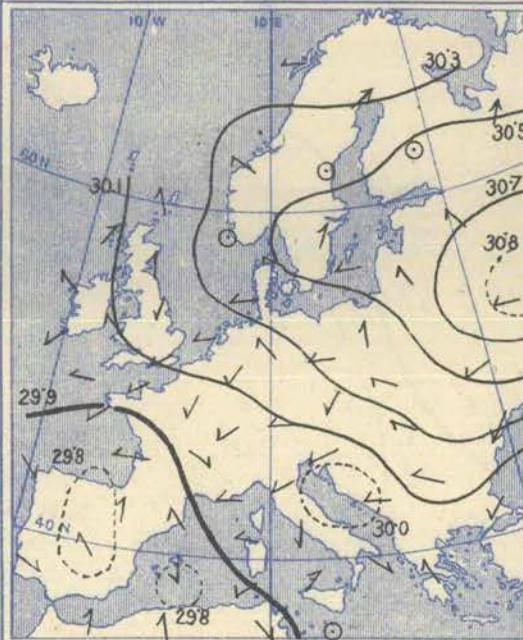
Temperature and Weather.

8 a.m.

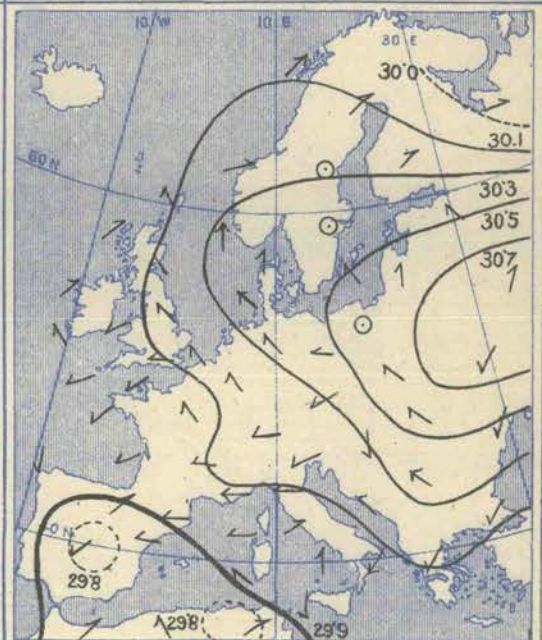


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull or cloudy in nearly all places. Fog and slight drizzling rain prevailing in many parts of England, rain at Aberdeen, and snow at Bodø and Uleaborg. Rain falling at many of our own western and northern stations later, and rather heavy amounts in some parts of Algeria and at Barcelona.

Temperature at 8 a.m. highest, 55° at Algiers, 51° at Barcelona, 52° at Malta, and 51° at Brindisi. Highest in the United Kingdom, 44° at Valencia and Scilly, and 40° in the extreme north. Lowest, 0° zero at Archangel, 3° at Riga, 6° in the south of Finland, 9° at Moscow, and much below 32° over Scandinavia and Russia generally, as well as on the German Baltic coasts. Not exceeding 35° all day over central England, but rising to 45° at Valencia, 52° at Nice, 58° at Palermo, and to 63° in Algeria.

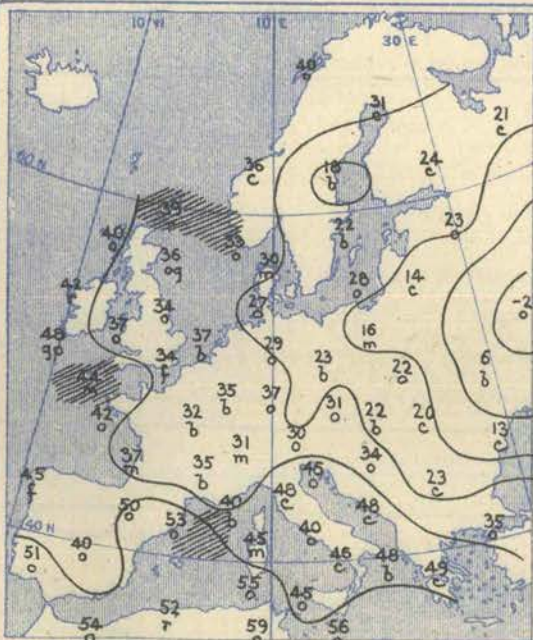
Wind in morning light or moderate from East or North-East over the central and southern countries, and the greater part of England, but drawing into South-East in Ireland, into South in Scotland, and into South-West in the extreme north of Europe. Very little change over Europe later taken as a whole, but a cyclonic circulation setting in over the Spanish Peninsula.

Barometer risen in most regions, but fallen in the extreme north of Europe, and also in Spain, Algeria, and Greece. Readings at 8 a.m. highest, 30.7 ins. to 30.8 ins. in an anticyclone over central Russia. Lowest, 29.8 ins. and less in a shallow disturbance lying over Spain, and in another system shown over the Balearic Islands; below 29.9 ins. over the Grecian Archipelago, and below 30.0 ins. over Dalmatia. Scarcely any change occurring during day, but the two cyclonic disturbances in south-eastern Europe disappearing.

Friday, 21st February.

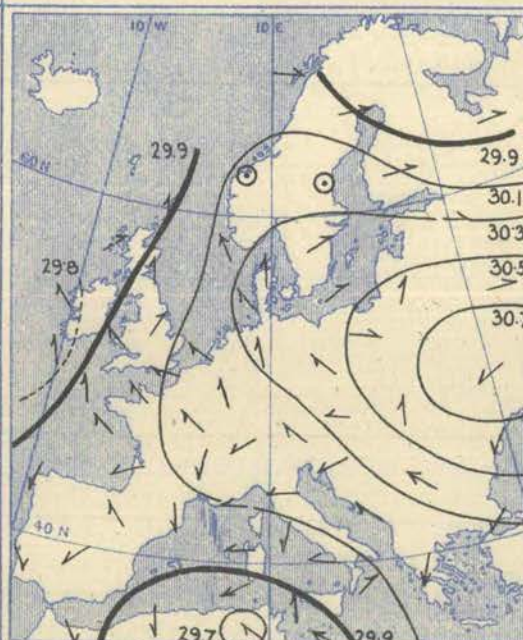
Temperature and Weather.

8 a.m.

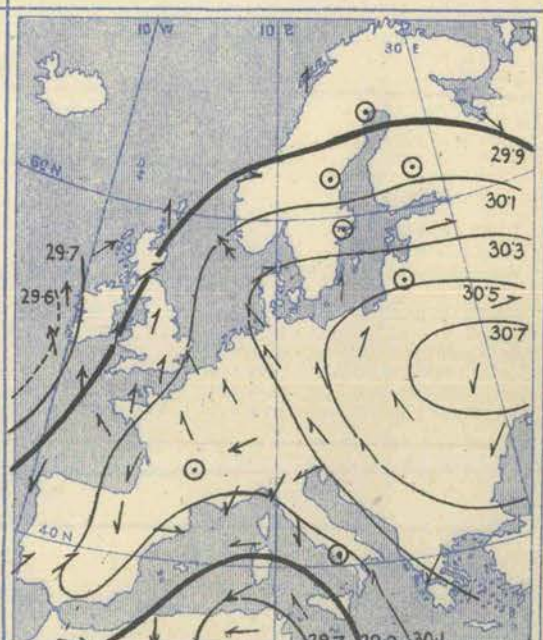


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull very generally, but fine and bright at some Swedish, and north German, and south Russian stations. Rainy at Sumburgh Head, in Ireland, and at Algiers, and Aumale, and foggy on the north coast of Spain. A little rain falling later in the west and north of our Islands generally, and more than 1 in. an inch the south-west of Ireland. Heavy rain also occurring in Algeria and Tunis.

Temperature risen quickly in the extreme north of Europe, and fallen quickly over central and south-eastern Europe. Readings at 8 a.m. highest, 59° at La Calle, 57° at Sfax, 56° at Malta, 55° at Palermo, and 53° at Barcelona. Lowest (1) - 2° at Moscow, + 1° at Kharkov, 6° at Kief, 10° at Nicolaieff, 18° at Odessa, and 35° at Constantinople; (2) 18° at Helsingfors, 22° at Warsaw, and 23° at Berlin; (3) 33° at Liverpool. Rising later to 51° at Valencia (Ireland) and in London, 59° on the south coast of France, to 64° at Tunis, and 66° at Palermo. Remaining below 40° on the east coast of Great Britain, and not exceeding 30° in Denmark and at the mouth of the Elbe.

Wind in morning light to fresh from South-East or South over the United Kingdom, and from between South-West and West over the northern countries. Light and mainly Easterly over central Europe and France. A cyclonic circulation of fresh or strong winds over Algeria, the western parts of the Mediterranean, and the adjacent coasts. Wind veering to South in most parts of the United Kingdom during day, and increasing in force along our western coasts; very little change elsewhere.

Barometer fallen rather quickly over northern Europe, and less decidedly over our Islands and Algeria; risen briskly in the south eastern countries. Readings at 8 a.m. highest, 30.6 ins. to 30.8 ins. in an anticyclone over central and southern Russia. Lowest, 29.7 ins. and less in the centre of a disturbance near La Calle, and below 29.8 ins. off the west coasts of Ireland and Scotland. Pressure decreasing still further over the United Kingdom later and southern cyclonic system growing somewhat deeper.

Saturday, 22nd February.

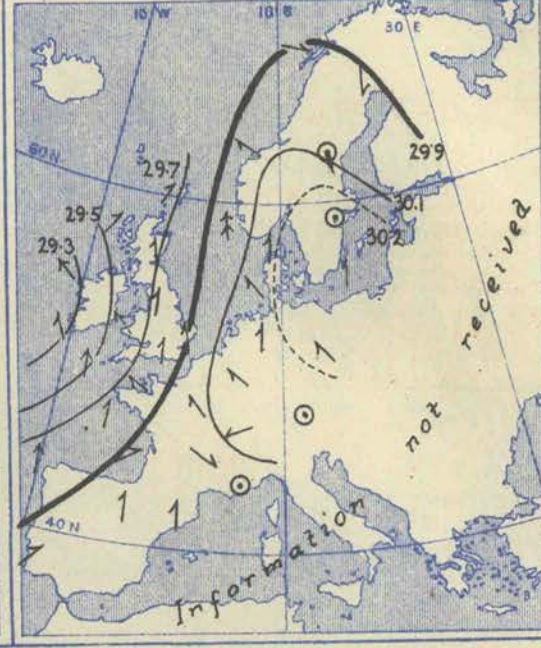
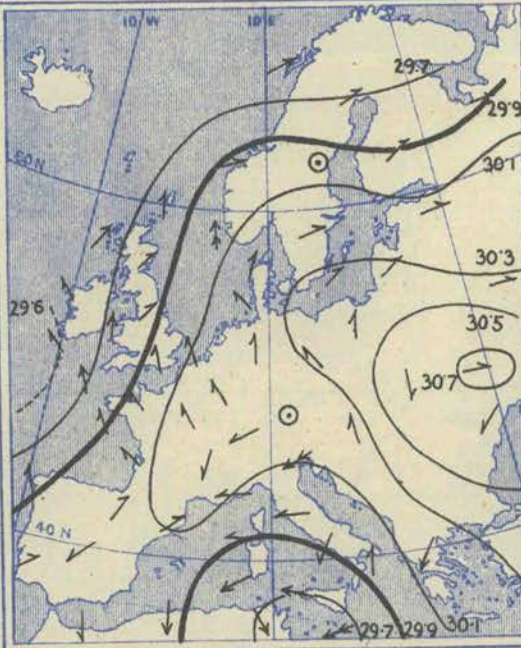
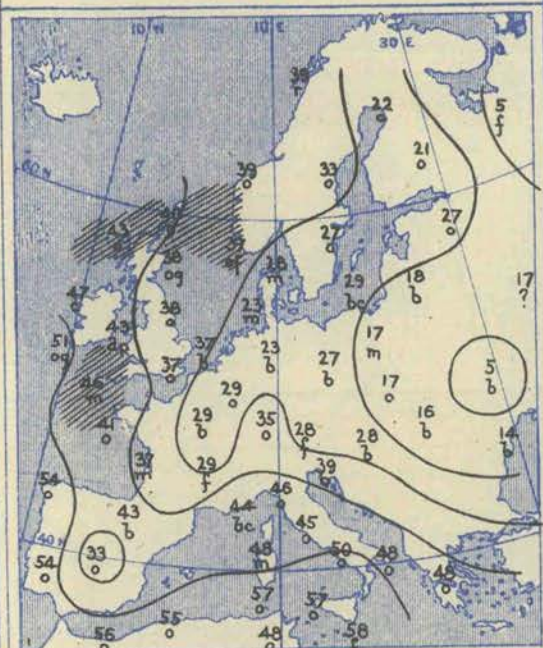
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning still cloudy or dull generally, but fine and bright in the south of Russia, many parts of Germany, and Austria-Hungary, and at some French stations. Rain falling at some of our own western stations, as well as at Bodø and Aumale. Rain becoming general over our Islands, and the west and north of France later; the amounts at some of our own western stations were rather heavy, while at Lorient there was as much as an inch.

Temperature at 8 a.m. highest, 58° at Malta, 57° at Cagliari and Palermo, 55° at Barcelona, 54° at Lisbon and Corunna, and 51° in the south west of Ireland. Lowest, 5° at Archangel and Kief, 9° at Nicolaieff, 12° at Cracow, and 23° at Cuxhaven and Fanø. Lowest in our Islands, 36° at Liverpool. Rising during day to 52° at Scilly and Valencia (Ireland), 51° in London and at Blacksod Point, 57° at Nice, and 61° at Biarritz. At the Danish stations the thermometer did not record a higher reading than 34°.

Wind in morning Southerly at nearly all our own stations, and fresh or strong in force on our south west coasts; South-Westerly and light over northern Europe as a whole, but blowing a gale from South-South-East at Skudesnaes. A strong cyclonic current of Easterly to Northerly winds prevailing over the Mediterranean generally, and a fresh gale from East-North-East at Malta. A fresh gale from same quarter also reported at Trieste. Wind backing to South-East at many of our western stations later, and gale at Skudesnaes increasing in force.

Barometer risen in Algeria, fallen in almost all other regions. Readings at 8 a.m. highest, 30.5 ins. to about 30.7 ins. over southern Russia. Lowest, 29.5 ins. and less off our extreme western coasts, below 29.6 ins. in a disturbance near Malta, and below 29.7 ins. over Lapland. Barometer falling over our Islands during day—briskly in the west, and rising decidedly in the north of Scandinavia.

GENERAL NOTES.

At the commencement of the week pressure was highest in an anticyclonic zone which extended from Holstein to Little Russia, while deep cyclonic disturbances were shown in the north of Scandinavia, over the Mediterranean, and off our own north-west coasts. These systems occasioned strong Southerly or Southwesterly winds or gales in the west and north of our Islands and over northern Europe and a cyclonic circulation of strong winds in many parts of southern Europe, the Mediterranean and north coast of Africa. During the remainder of the week the central portion of the anticyclone moved at first northwards to Finland and North Russia and subsequently southwards until it reached the southern part of Russia. In the meantime disturbances continued to form in various parts of southern Europe and the Mediterranean, but with the exception of that observed on Saturday, which caused strong Northerly to Easterly winds or gales, they were of only moderate depth. Other systems

whose centres were at first some distance to the westward of our Islands occasioned frequent falls of the barometer along our western coasts and by the end of the period, when they had approached nearer, produced a general decrease of pressure over the United Kingdom. The dominant wind current was Southeasterly to Southerly over our Islands and Southwesterly to Westerly over northern Europe generally, while in the southern and central countries the wind was mainly Easterly or Northeasterly. Falls of snow or cold rain were not infrequent over Scandinavia and our own northern and western districts, but they were mostly slight until the end of the week. Over Europe as a whole the weather was dry, but heavy rain occurred at times over the south of France and some other southern regions, as well as in Algeria. Temperature continued low over the United Kingdom and northern and central Europe, but was rising briskly as the period drew towards its close.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 44.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.
DEERNES	1.4	- 14.3	2	- 22	THURCASTON	15.4	- 1.3	22	- 2	BOURNEMOUTH	11.8	-	21	-
STRATHPEFFER SPA	8.9	- 7.7	13	- 11	MARGATE	-	-	-	-	SOUTHPORT	9.5	-	14	-
EDINBURGH	3.4	- 12.1	5	- 18	BROADSTAIRS	28.3	-	40	-	RHYL	-	-	-	-
MORPETH	9.6	-	14	-	EASTBOURNE	29.4	+ 8.2	41	+ 13	COLWYN BAY	-	-	-	-
NEWCASTLE-ON-TYNE	5.3	-	8	-	BRIGHTON	23.6	+ 2.5	33	+ 4	ABERDOVEY	22.5†	-	34†	-
YORK	10.6	- 5.8	15	- 8	WORTHING	22.9	-	32	-	TENBY	11.0	- 11.3	16	- 15
LOWESTOFT	23.5	-	34	-	BOGNOR	20.8†	-	29†	-	NEWQUAY	6.2	- 15.5	9	- 21
HOLLESLEY BAY	24.8	-	35	-	WATERGATE	19.1	-	27	-	TORQUAY	11.8	- 8.4	17	- 10
SHEFFIELD	6.6	-	9	-	WESTBOURNE	20.5†	- 1.3	29†	- 1	CAHIR (Dunneske)	2.9†	-	4†	-
WORKSOP	13.5	- 2.8	19	- 4	VENTNOR HOSPITAL	17.9	- 4.4	25	- 6	GUERNSEY	15.7†	- 8.7	22†	- 12

† The values at Bognor, Westbourne, Rhyll, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)					Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.							
Week ending January 4th 1902.	Churchstoke	54	36	50.3	39.3	45.3	7	1.53	+ 0.86	6.0	- 3.7	12	- 6
"	York	-	-	-	-	-	-	-	-	5.4	- 1.0	11	- 1
"	Thurcaston	-	-	-	-	-	-	-	-	6.0	- 2.0	12	- 3
"	Rhyll	-	-	-	-	-	-	-	-	19.9	-	38	-

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VOL. XIX. No. 9.]
Fourth Series.

WEEK ENDING SATURDAY, MARCH 1ST, 1902.

[Price 6d.
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post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 50.)		Temperature of the Air.															
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.									
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.					
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.		
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	54	33	45.9	38.2	42.0	4 above	Day-deg. 11	Day-deg. + 3	Day-deg. 11	Day-deg. -25	Day-deg. 45	Day-deg. - 16	Day-deg. 417	Day-deg. + 94		
	1. SCOTLAND, EAST .	54	28	43.5	35.0	39.3	1 above	4	- 8	26	-12	43	- 35	461	+ 91		
	2. ENGLAND, N.E. .	54	28	45.6	36.8	41.2	2 above	10	- 3	21	-11	87	+ 4	343	+ 28		
	3. ENGLAND, EAST .	56	28	47.1	36.7	41.9	2 above	14	- 2	22	-13	99	+ 7	341	- 10		
	4. MIDLAND COUNTIES	55	27	48.7	38.5	43.6	4 above	26	+ 9	10	-25	109	+ 2	353	- 2		
	5. ENGLAND, SOUTH .	57	37	48.4	41.1	44.8	4 above	23	+ 4	3	-24	109	- 18	258	- 13		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	51	32	46.0	39.2	42.6	3 above	16	+ 4	8	-20	82	- 11	319	+ 57		
	7. ENGLAND, N.W. .	59	32	48.7	39.4	44.0	4 above	25	+12	7	-20	93	- 4	302	+ 44		
	8. ENGLAND, S.W. .	56	37	50.4	42.9	46.7	5 above	33	+13	0	-22	139	- 15	230	+ 28		
	9. IRELAND, NORTH .	56	34	49.6	41.3	45.5	4 above	27	+10	2	-21	99	- 30	238	+ 15		
	10. IRELAND, SOUTH .	56	40	51.3	44.5	47.9	5 above	41	+17	0	-17	168	- 27	175*	+ 3		
	-CHANNEL ISLANDS.	57	39	52.5	44.4	48.5	4 above	46	+20	0	- 9	237	+ 13	94	+ 9		
DISTRICTS. (See p. 50.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	3	10ths of in. 2	10ths of in. 2 less	44	+ 1	9.2	- 1.3	6	-11	8	-15	91	+ 1	18	0	
	1. SCOTLAND, EAST .	5	7	2 more	32	- 2	3.3	- 2.2	6	-14	8	-20	104	- 14	20	- 3	
	2. ENGLAND, N.E. .	5	6	2 more	28	- 5	2.7	- 1.1	7	-12	10	-16	107	- 8	19	- 2	
	3. ENGLAND, EAST .	4	5	1 more	27	- 8	2.2	- 1.6	19	- 8	26	-12	155	- 2	23	- 1	
	4. MIDLAND COUNTIES	6	10	5 more	27	- 6	3.2	- 1.4	9	-11	12	-15	104	- 3	21	- 1	
	5. ENGLAND, SOUTH .	6	9	5 more	26	- 7	3.2	- 1.8	15	- 8	21	-10	143	- 1	24	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	6	17	8 more	39	- 1	8.8	- 1.6	2	-16	3	-23	87	- 18	16	- 4	
	7. ENGLAND, N.W. .	6	9	3 more	34	- 2	4.8	- 1.0	13	- 5	18	- 7	118*	+ 6	22	+ 1	
	8. ENGLAND, S.W. .	6	11	4 more	31	- 7	4.9	- 3.0	15	- 8	20	-10	137	- 5	25	- 1	
	9. IRELAND, NORTH .	6	9	3 more	40	0	6.2	+ 0.2	14	- 5	19	- 7	96	- 23	18	- 4	
	10. IRELAND, SOUTH .	6	15	8 more	32	- 9	6.4	- 1.7	14	- 6	20	- 7	125	- 11	23	- 2	
	- CHANNEL ISLANDS.	5	5	1 less	36	- 4	4.1	- 2.2	26	0	35	0	139	- 37	22	- 7	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was generally mild, with very frequent, but not, as a rule, heavy rain. Some fine clear intervals were, however, experienced at times, especially in the more eastern and southern districts. Some thunder occurred in the north-east and south-west towards the end of the week.

Temperature was above the mean throughout the Kingdom; in the east and north-east of Great Britain the excess was only 1° or 2°, but in most other districts it was as much as 4°, and in England S.W. and Ireland S. 5°. The highest of the maxima occurred on rather irregular dates, and ranged from 59° in England N.W. (at Llandudno on Tuesday), and 57° in England S. and the Channel Islands, to 54° in the extreme northern and north-eastern districts, and to 51° in Scotland W. The lowest of the minima, which were mostly recorded either on Wednesday or Thursday, ranged from 27° in the Midland Counties and 28° in Scotland E. and England N.E. and E. to 37° in England S. and S.W., 39° in the Channel Islands, and to 40° in Ireland S.

Rainfall was more than the mean in almost all parts of the Kingdom; the excess was very considerable in most districts, but only slight in the extreme north-east and east. In Scotland N. and the Channel Islands the fall was less than the mean, the deficit in the former region being large.

Bright Sunshine was deficient in all districts except the Channel Islands. The percentage of the possible duration ranged from 35 in the district just named, and from 26 in England E. to 21 in England S., 10 in England N.E., 8 in Scotland N. and E., and 3 in Scotland W.

Barometer and Wind.—During this week the barometer was again highest either over Scandinavia or the Baltic, and lowest to the westward or south-westward of our Islands. The only disturbances which appeared immediately over the Kingdom were one or two shallow secondary systems, but other low pressure areas of considerable size and depth approached our extreme south-western and western coasts, and after apparently remaining stationary for a time, moved slowly northward and partially filled up. Under these conditions the winds over our Islands have been South-Easterly or Easterly, but in many western and northern districts they have at times been more Southerly. Their strength was slight in the South and East, but much stronger along our western and north-western coasts, especially about the middle of the week, when a few exposed places felt moderate to fresh gales.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.														
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
											Inches.	Inches.				
O. SCOTLAND, N	Sumburgh Head	43	35	41.3	37.3	39.3	+ 1.3	0	19	3	0.07	- 0.06	*	*	*	*
	Stornoway	50	35	47.1	38.7	42.9	+ 3.7	20	9	4	0.43	- 0.45	14.5	- 4.3	20	- 6
	Wick	47	35	43.3	37.7	40.5	+ 2.1	4	16	4	0.21	- 0.29	*	*	*	*
	Laing	52	33	46.6	36.3	41.5	+ 4.0	13	24	2	0.14	- 1.49	*	*	*	*
	Glencarron	54	34	48.7	38.9	43.8	+ 5.1	26	9	3	0.04	- 0.82	3.7	- 9.5	5	- 13
	Fort William	53	34	48.3	40.0	44.2	+ 4.7	24	6	4	0.28	- 1.41	2.5	- 14.1	4	- 19
1. SCOTLAND, E.	Nairn	52	28	46.4	35.9	40.7	+ 2.1	12	28	3	0.17	- 0.21	*	*	*	*
	Aberdeen	48	34	42.6	37.0	39.8	+ 1.0	2	18	5	0.65	+ 0.10	7.0	- 15.1	10	- 21
	Braemar	47	30	39.9	34.2	37.1	+ 1.8	0	34	6	0.56	- 0.08	*	*	*	*
	Ochertyre	47	33	42.1	34.9	38.5	- 0.1	0	25	7	1.35	+ 0.58	*	*	*	*
	Leith	54	32	46.6	36.0	41.3	+ 0.9	13	24	5	0.56	+ 0.21	*	*	*	*
	Marchmont	47	28	43.6	32.7	38.2	+ 0.2	4	34	6	0.95	+ 0.38	5.8	- 14.0	8	- 20
2. ENGLAND N.E.	Alnwick Castle	51	31	45.7	35.6	40.6	+ 1.7	10	25	5	0.82	+ 0.23	*	*	*	*
	Durham	51	28	45.4	34.9	40.2	+ 1.5	10	28	6	0.53	+ 0.13	6.5	- 13.7	9	- 18
	Shields	54	34	45.4	37.3	41.4	+ 1.7	10	19	5	0.70	+ 0.32	*	*	*	*
	Scarborough	54	33	45.6	36.7	41.2	+ 1.3	10	21	5	0.47	+ 0.03	10.3	—	14	—
	Spurn Head	53	35	43.3	36.0	39.7	+ 0.1	4	22	3	0.52	+ 0.20	*	*	*	*
	Fulbeck (Lincolnshire)	53	37	48.3	40.3	44.3	+ 5.3	23	5	6	0.68	+ 0.33	*	*	*	*
3. ENGLAND, E.	Hillington	56	31	49.1	37.3	43.2	+ 3.5	28	13	6	0.71	+ 0.28	18.5	- 3.0	25	- 4
	Yarmouth	50	35	43.1	35.9	39.5	+ 0.4	3	22	2	0.27	- 0.15	*	*	*	*
	Geldeston	54	31	46.6	36.0	41.3	+ 1.3	13	24	2	0.29	- 0.08	19.5	- 3.3	26	- 5
	Cambridge	55	28	51.3	36.3	43.8	+ 3.7	37	16	5	0.51	+ 0.17	12.8	- 9.5	17	- 13
	Felixstowe	50	34	44.3	37.6	41.0	+ 1.2	6	17	4	0.31	—	29.2†	—	39†	—
	Rothamsted	52	31	48.2	37.3	42.8	+ 3.3	25	13	7	0.86	+ 0.41	8.5	- 12.7	11	- 17
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	27	47.7	35.6	41.7	+ 1.7	16	27	6	0.74	+ 0.37	*	*	*	*
	Loughborough	55	34	49.4	38.9	44.2	+ 4.1	28	9	6	0.98	+ 0.57	*	*	*	*
	Colly Weston (Stamford)	55	30	48.7	37.1	42.9	+ 3.7	27	14	6	0.90	—	*	*	*	*
	Cheadle	51	31	46.5	37.7	42.1	+ 3.5	19	12	7	1.22	+ 0.66	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	54	33	48.7	39.6	44.2	+ 4.4	25	7	7	1.20	+ 0.33	7.4	—	10	—
	Churchstoke	53	35	49.3	38.8	44.1	+ 4.6	28	9	7	0.62	+ 0.07	13.2	- 7.6	18	- 11
5. ENGLAND, S.	Hereford	52	36	49.0	40.1	44.6	+ 4.0	26	5	6	1.17	+ 0.71	*	*	*	*
	Gloucester	52	35	49.0	38.8	43.9	+ 4.6	27	9	7	1.14	+ 0.60	5.3	- 16.4	7	- 22
	Oxford	54	37	49.7	39.7	44.7	+ 6.1	29	6	6	0.74	+ 0.33	9.4	- 11.2	13	- 14
	London	54	37	50.6	39.7	45.2	+ 4.1	32	6	6	0.45	+ 0.07	6.2†	- 7.3†	8†	- 10†
	Swarraton (Alresford)	54	37	49.4	40.8	45.1	+ 5.7	27	3	7	1.14	+ 0.57	*	*	*	*
	Dungeness	50	38	46.0	40.1	43.1	+ 2.4	16	5	4	0.35	+ 0.04	20.5	—	28	—
6. SCOTLAND, W.	Hastings (St. Leonards)	53	41	47.3	41.5	44.4	+ 3.5	19	1	6	0.66	+ 0.18	17.3	- 7.7	23	- 10
	Southampton	57	40	50.2	42.7	46.5	+ 4.3	32	0	7	1.39	+ 0.85	10.6	- 12.5	14	- 17
	Portland Bill	51	42	48.0	43.1	45.6	+ 2.5	25	0	6	1.10	—	*	*	*	*
	Shaftesbury	53	37	47.2	39.5	43.4	+ 3.6	20	7	7	1.41	+ 0.84	*	*	*	*
	Laudale (Loch Sunart)	51	36	43.0	40.8	44.4	+ 3.9	22	3	5	1.44	- 0.09	*	*	*	*
	Glasgow	50	33	44.3	37.4	40.9	+ 1.6	6	18	6	0.94	+ 0.26	0.9	- 13.5	1	- 19
7. ENGLAND, N.W.	Cally	50	32	46.4	38.0	42.2	+ 2.5	18	11	6	2.38	+ 1.47	*	*	*	*
	Douglas (Isle of Man)	48	35	45.2	40.5	42.9	+ 1.9	13	4	6	2.12	+ 1.37	3.0	- 19.2	4	- 27
	Newton Reigny	51	32	45.7	35.3	40.5	+ 2.6	10	26	6	1.26	—	9.6	—	13	—
	Stonyhurst	51	34	46.3	38.5	42.4	+ 2.8	18	10	5	0.94	+ 0.13	9.9	- 8.8	14	- 11
	Blackpool	54	34	48.8	38.7	43.8	+ 3.6	26	9	5	1.12	+ 0.58	14.5	- 4.3	20	- 6
	Manchester (Prestwich)	56	33	48.3	39.3	43.8	+ 4.2	24	8	5	0.68	+ 0.12	4.1	—	6	—
8. ENGLAND, S.W.	Liverpool Obsy. (Bidston)	53	35	49.0	38.7	43.9	+ 3.2	27	9	6	0.90	+ 0.58	14.9	—	20	—
	Chester	55	37	50.3	40.1	45.2	+ 3.6	30	5	6	0.71	—	*	*	*	*
	Llandudno	59	38	52.6	42.4	47.5	+ 5.0	39	0	7	0.47	- 0.03	17.3	- 3.3	24	- 4
	Holyhead	50	40	48.3	42.0	45.2	+ 3.1	22	0	5	0.78	+ 0.23	*	*	*	*
	Llandoverly	54	38	51.4	41.6	46.5	+ 6.3	33	1	6	1.21	+ 0.32	*	*	*	*
	Pembroke	48	42	47.6	43.1	45.4	+ 2.9	24	0	6	0.75	+ 0.15	15.7	- 8.0	21	- 11
9. IRELAND, N.	Clifton	53	39	49.7	42.5	46.1	+ 4.4	29	0	5	0.61	+ 0.04	*	*	*	*
	Bath	54	37	51.1	41.9	46.5	+ 4.8	32	0	6	1.01	—	5.4	—	7	—
	Arlington (N. Devon)	53	39	50.4	41.4	45.9	+ 5.0	30	2	5	1.35	+ 0.42	*	*	*	*
	Cullompton	56	39	51.4	42.3	46.9	+ 4.9	34	0	5	1.86	+ 1.21	9.5	- 12.1	13	- 16
	Falmouth	53	44	50.9	45.1	48.0	+ 3.8	42	0	6	1.13	+ 0.27	19.7	- 5.3	27	- 6
	Plymouth	56	43	50.8	45.1	48.0	+ 4.7	42	0	5	1.12	+ 0.47	22.1	- 1.9	30	- 2
10. IRELAND, S.	Malin Head	52	37	48.4	41.0	44.7	+ 2.9	23	3	5	0.31	—	*	*	*	*
	Edenfel (Omagh)	53	34	50.0	40.7	45.4	+ 5.9	29	4	7	1.26	+ 0.67	*	*	*	*
	Blacksod Point	53	41	49.7	43.6	46.7	+ 3.5	33	0	7	0.83	—	*	*	*	*
	Markree Castle	56	37	51.6	42.1	46.9	+ 5.6	34	0	6	0.96	+ 0.28	10.5	- 8.7	14	- 12
	Armagh	54	35	50.3	40.8	45.6	+ 4.8	30	3	5	1.05	+ 0.55	16.6	- 2.1	23	- 3
	Donaghadee	51	31	47.4	39.7	43.6	+ 2.0	21	6	5	1.04	+ 0.51	*	*	*	*
CHANNEL ISLANDS	Dublin	55	42	51.8	43.3	47.6	+ 4.8	39	0	5	1.42	+ 0.94	23.4	+ 1.6	32	+ 2
	Parsonstown	56	40	51.7	43.6	47.7	+ 6.3	40	0	6	1.03	+ 0.53	17.1	- 3.0	23	- 4
	Kilkenny	53	41	50.6	44.4	47.5	+ 5.2	39	0	5	1.62	+ 1.08	*	*	*	*
	Roche's Point	50	44	48.9	45.1	47.0	+ 2.7	35	0	5	2.14	+ 1.22	*	*	*	*
	Valencia	55	44	52.0	46.0	49.0	+ 3.8	49	0	7	1.96	+ 0.87	7.8	- 14.9	11	- 20
	Killarney	54	43	52.1	45.7	48.9	+ 5.2	48	0	7	1.71	+ 0.65	*	*	*	*
CHANNEL ISLANDS	Foynes	55	40	52.0	43.1	47.6	+ 4.3	39	0	5	0.87	+ 0.19	*	*	*	*
	Scilly (St. Mary's)	56	45	52.9	46.4	49.7	+ 3.9	54	0	5	0.53	- 0.05	24.7	—	33	—
CHANNEL ISLANDS	Jersey	57	39	52.0	42.3	47.2	+ 3.5	36	0	5	0.37	- 0.20	24.2	- 3.8	33	- 4

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 23rd February.

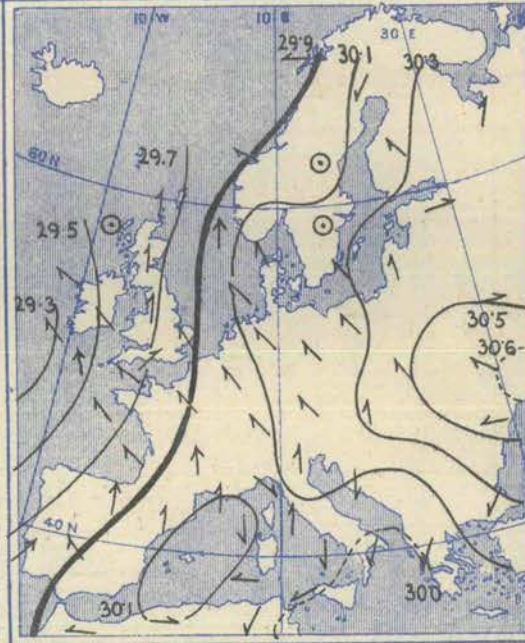
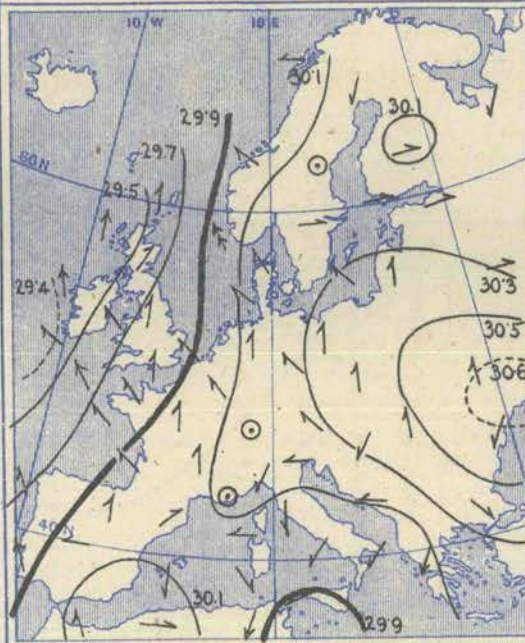
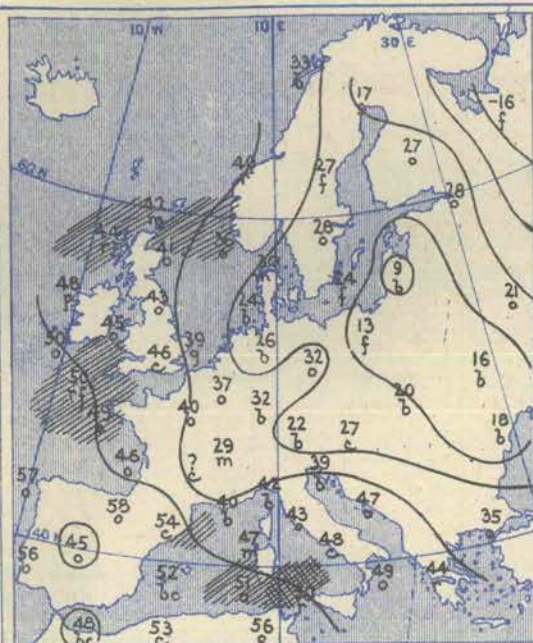
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the greater part of western, northern, and southern Europe, with fog or mist in several places; rain falling at some of our own western and extreme northern stations, and also in the north of France, and at Christiansund, Patras, and Palermo; snow reported at Haparanda. Fine over all the more central parts of the Continent, including the south of France and the extreme north of Italy. Rain falling later over nearly the whole of the United Kingdom and the northern parts of France—rather heavily in the south west.

Temperature risen generally, but fallen over Sweden and the Baltic, and also in Italy. Morning readings highest, 58° at Biarritz, 57° at Lisbon, and 56° at La Calle; above 45° in the west and south of our Islands, and touching 50° at Valencia and Sicily. Lowest, -16° Fahr. at Archangel, +9° at Riga, 13° at Neufahrwasser, and 15° at Kharkov and Nicolaieff; considerably below the freezing point in most parts of northern, eastern, and central Europe. Rising during day to 50°, or slightly above it, in many parts of the United Kingdom, and to 55° at Valencia; exceeding 55° over southern Europe generally, and reaching 64° at Cagliari.

Wind Southerly or South-Easterly over the whole of western and central Europe; light or moderate in force generally, but fresh on many parts of our western coasts, and blowing a gale at Skudesnaes. Calm or light from the Westward over Sweden and northern Russia; Easterly or North-Easterly over Italy and the Adriatic. Subsequently blowing very strongly from the South-Eastward on our south-west coasts; no decided change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards in the south of Russia; 30.1 ins. and upwards in an anticyclone covering all the more eastern and central parts of Europe. Lowest, 29.4 ins. and less in a cyclonic area lying off the west of Ireland. Latter system spreading slowly eastwards during day, and barometer falling in most parts of Ireland and England, as well as over France and the Spanish Peninsula.

Monday, 24th February.

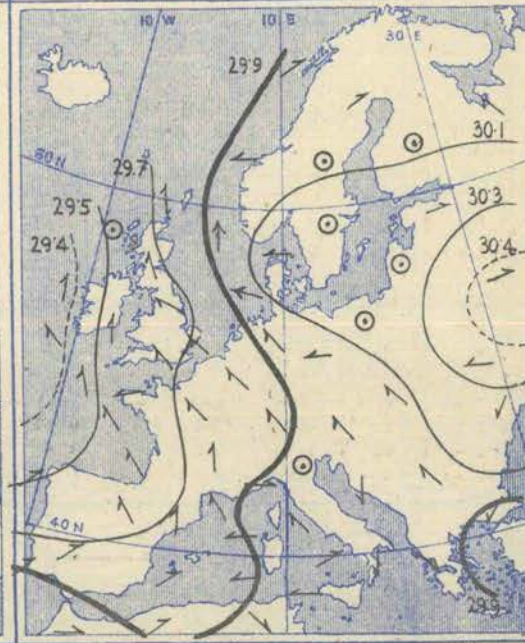
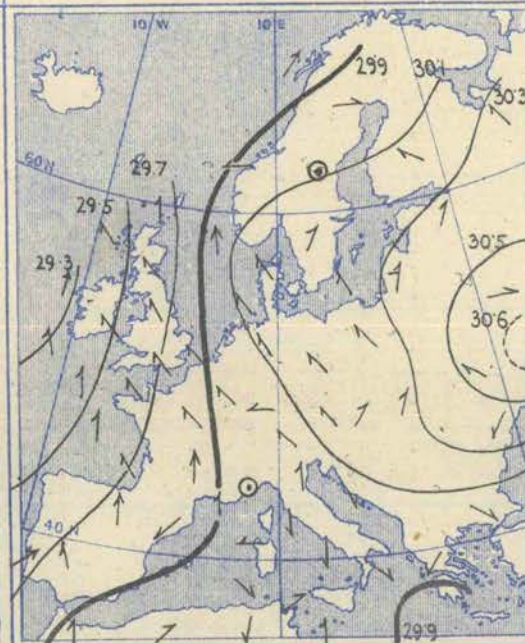
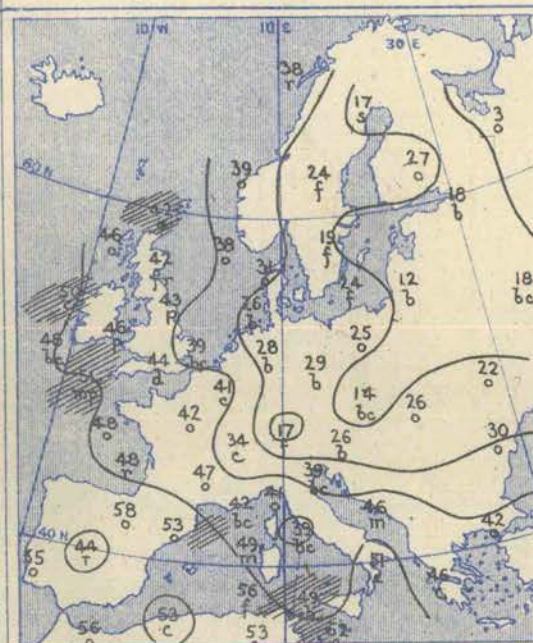
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning dull over western and northern Europe generally, with fog or mist in several places; rain falling in many parts of our Islands, France, and Spain, and also at Christiansund; snow reported at Haparanda. Fine in most of the central countries and in Italy; no decided change occurring later. Rain falling in nearly all parts of western and southern Europe—heavily in places, the amounts being as large as 1.2 in. at Leghorn, and 1.0 in. at Lisbon.

Temperature risen in all the more northern parts of the United Kingdom, but changed rather irregularly elsewhere. Morning readings highest, 63° at Algiers, 58° at Biarritz, and 56° at Cagliari and Oran; above 45° in many parts of the United Kingdom, and touching 50° at Blackad Point, and 51° at Sicily. Lowest, 3° at Archangel, 12° at Riga, 14° at Cracow, and 15° at Memel and Kharkov; below the freezing point over northern, eastern, and central Europe generally. Rising during day to 50° and upwards at several of our own western and northern stations, and to 56° at Parsonstown; exceeding 55° in many parts of France and southern Europe, and reaching 63° at Bilbao and Palermo, and 64° at Perpignan.

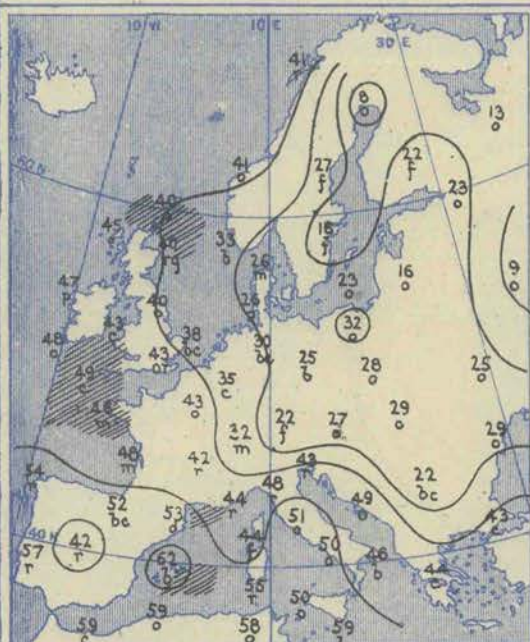
Wind light to fresh from the Southward or South-Eastward over western Europe generally, but drawing into South-West or West in many parts of Scandinavia and northern Russia. Easterly or North-Easterly in the south of Russia; Northerly in Italy and Greece. Subsequently veering to the South-Westward over the Spanish Peninsula; no material change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards in the south of Russia; 30.0 ins. and upwards in an anticyclone lying over the whole of eastern, and central, and a considerable portion of northern Russia. Lowest, 29.3 ins. and less in a cyclonic system off the west of Ireland; 29.9 ins. and less in a shallow system lying over and to the southward of Greece. Disturbance off our western coasts subsequently passing away over the Atlantic, but small secondary systems appearing over the southern parts of France and the Bay of Biscay.

Tuesday, 25th February.

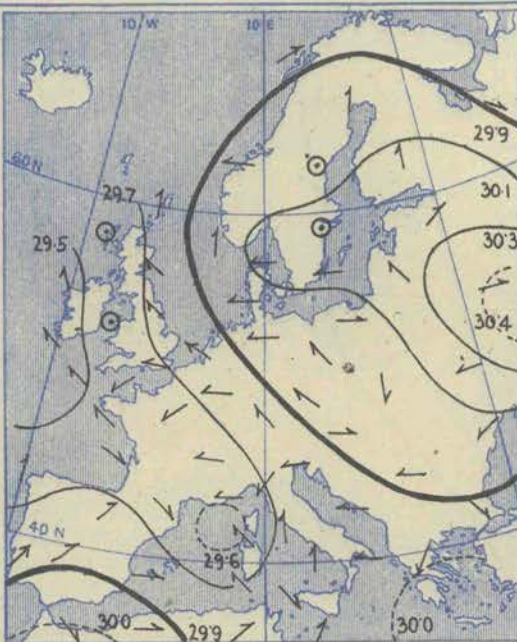
Temperature and Weather.

8 a.m.

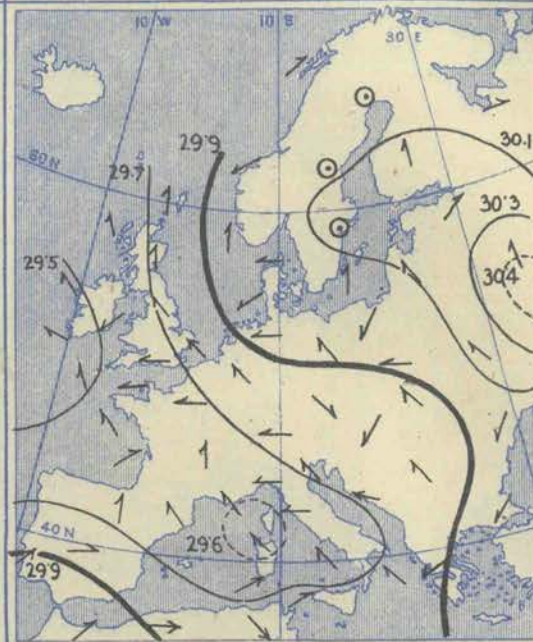


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with fog in the English Channel and in many parts of Sweden and Finland; rain falling at several of our own stations, and also over the Spanish Peninsula, northern Italy, and the south of France. Fine over the Netherlands and western Germany. Light rain falling later in many parts of the United Kingdom and France, and larger quantities over Italy and the Spanish Peninsula—as much as 1.6 in. at Leghorn, and 1.1 in. at Oporto.

Temperature fallen in most of the western and northern countries, but risen elsewhere. Morning readings highest, 62° at Palma, and 50° at Oran, Algiers, and Malta; above 50° at several of the Mediterranean and Spanish coast stations, and very little below it on our own extreme west and south-west coasts. Lowest, 8° at Haparanda, 9° at Moscow, 13° at Archangel, and 16° at Stockholm and Riga; below the freezing point over northern, eastern, and central Europe generally. Rising during day to 50°, or slightly above it, at several of our own western and northern stations, but scarcely exceeding 40° on the east coasts of Great Britain. Exceeding 55° in most parts of southern Europe, and reaching 67° at Palermo.

Wind light to moderate from the Eastward or South-Eastward over north-western and central Europe generally, but varying between South and West over the northern parts of Russia and Scandinavia. South-Westerly over the Spanish Peninsula and the south-west of France; variable over Italy and the south of France; no important change occurring during day.

Barometer highest, 30.4 ins. and upwards over central Russia; 30.0 ins. and upwards in an anticyclone covering nearly the whole of Russia and Scandinavia, and also in another system over Morocco. Lowest, 29.5 ins. and less in a cyclonic area lying over the west of Ireland, the western parts of the Bay of Biscay, and the neighbouring parts of the Atlantic; 29.6 ins. and less in a shallow depression over the Gulf of Lion. Cyclonic system in west subsequently spreading slowly eastwards; secondary disturbances appearing over the Bay of Biscay and France.

Wednesday, 26th February.

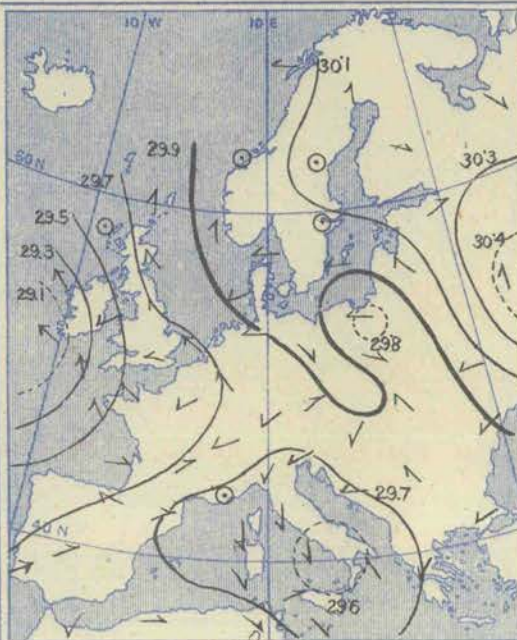
Temperature and Weather.

8 a.m.

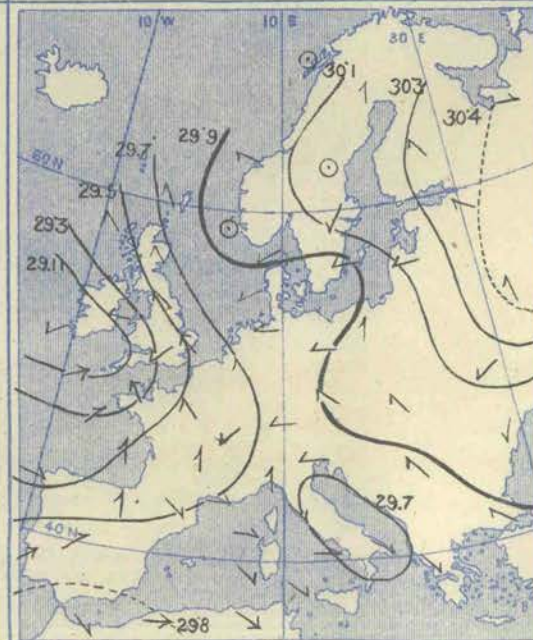


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over Europe as a whole, with fog in the western parts of the English Channel, as well as at many of the Swedish and German stations; rain falling at Blackhead Point and Roche's Point, and also at Limoges, and in several parts of southern Europe; snow reported at Breslau and Vienna. Fine over the Netherlands, western Germany, and the east coasts of England.

Temperature fallen in most countries, but risen in Sweden, and also over the Spanish Peninsula and the south of France. Morning readings highest, 61° at Algiers, 59° at Lisbon, and 58° at Oran; above 50° at most of the Mediterranean and Spanish coast stations, and varying between 47° and 50° on our own extreme west and south-west coasts. Lowest, 6° at Helsingfors, 8° at Moscow, 10° at Archangel, and 13° at St. Petersburg; below the freezing point over northern, eastern, and central Europe generally. Rising during day to between 45° and 50° at most of our western and southern stations, but not exceeding 40° on the east coasts of England. Exceeding 55° over southern Europe, and reaching 60° or more in several places, the highest reading reported being 70° at Bilbao.

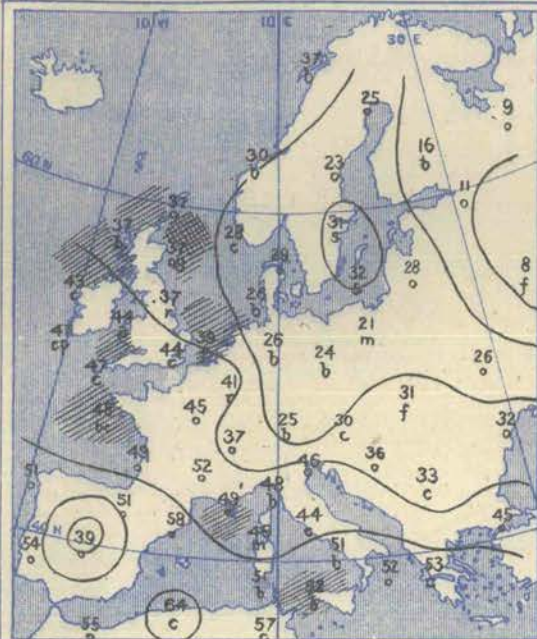
Wind Easterly or South-Easterly over our Islands, and the neighbouring parts of the Continent, and strong in force at some of the Irish stations; South-Westerly over the Spanish Peninsula, and the west and south of France. Light from the Westward over northern Russia; cyclonic circulations of light breezes existing respectively over eastern Germany, and over southern Italy. Wind variable in Austria; light from the Eastward in the south of Russia. Subsequently increasing to a moderate gale from East or South-East on some parts of our western coasts, but veering to the South-Westward at the mouth of the English Channel.

Barometer highest, 30.4 ins. and upwards over central Russia. Lowest, 29.3 ins. and less in a well-marked cyclonic system lying off the south-west of Ireland; 29.6 ins. and less in a shallow disturbance over southern Italy; 29.3 ins. and less in another shallow system over north-eastern Germany. Cyclonic area off the south-west of Ireland spreading eastwards later; disturbance over southern Italy moving slowly eastwards and partially filling up German depression moving slowly north-westwards over the southern part of the Baltic.

Thursday, 27th February.

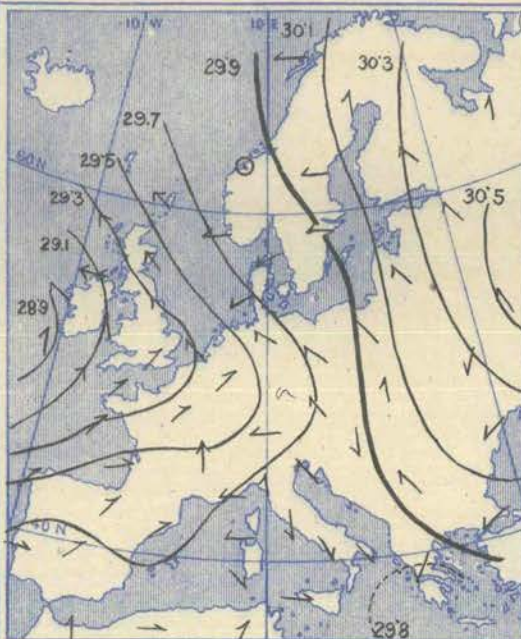
Temperature and Weather.

8 a.m.

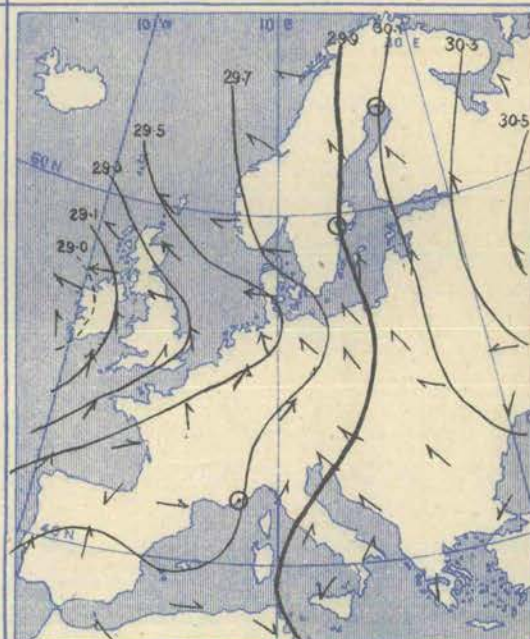


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and unsettled over western Europe generally, with rain in many parts of our Islands and the Netherlands. Fine at many of the Scandinavian, German, Austrian, and Italian stations, but fog reported in places, and snow in the south of Sweden; dull in Russia and Greece. Rain falling later in most parts of western and southern Europe—rather heavily in places.

Temperature fallen in the extreme west and north of our Islands, and also in Spain, and in Scandinavia, and northern Russia, risen elsewhere. Morning readings highest, 64° at Algiers, 58° at Barcelona, and 57° at La Calle, above 50° at most of the Mediterranean and Spanish coast stations. Lowest, 8° at Moscow, 9° at Archangel, 11° at St. Petersburg, and 16° at Kuopio and Helsingfors; below the freezing point over northern, eastern, and central Europe generally. Rising during day to 50° and upwards over the central and southern parts of the United Kingdom and to 54° at Jersey; exceeding 60° in many parts of southern Europe, and reaching 66° at Palermo, and 70° at Barcelona.

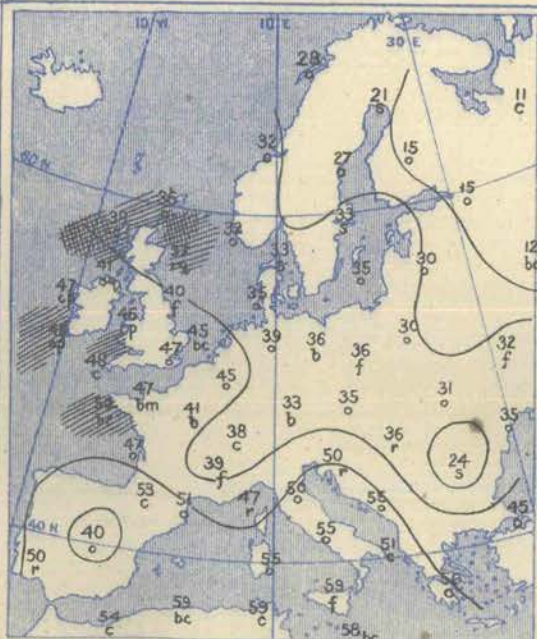
Wind moderate to fresh from the Southward or South-Westward over Spain, France, and the southern parts of the United Kingdom; Easterly or South-Easterly over Germany, Denmark, Scandinavia, and the northern and eastern parts of the United Kingdom, and blowing a gale on our extreme north-west coasts. North-Westerly in Italy; North-Easterly in Greece; no important change occurring during day.

Barometer in morning highest, 30.5 ins. and upwards in an anticyclone over central Russia. Lowest, 29.9 ins. and less in a cyclonic disturbance lying to the westward of Ireland; below 29.8 ins. in another cyclonic area over Greece. Very little change in the high pressure system during day; low pressure system off the west of Ireland moving very slowly northwards, and that over Greece dispersing. A small shallow disturbance appearing in Mediterranean to the northward of the Balearic Islands.

Friday, 28th February.

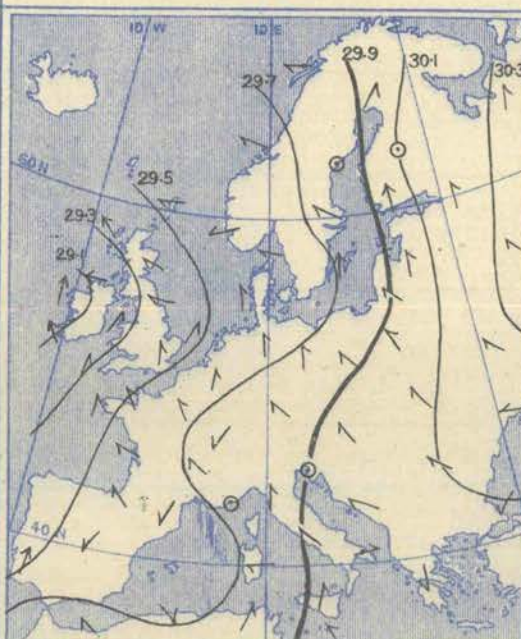
Temperature and Weather.

8 a.m.

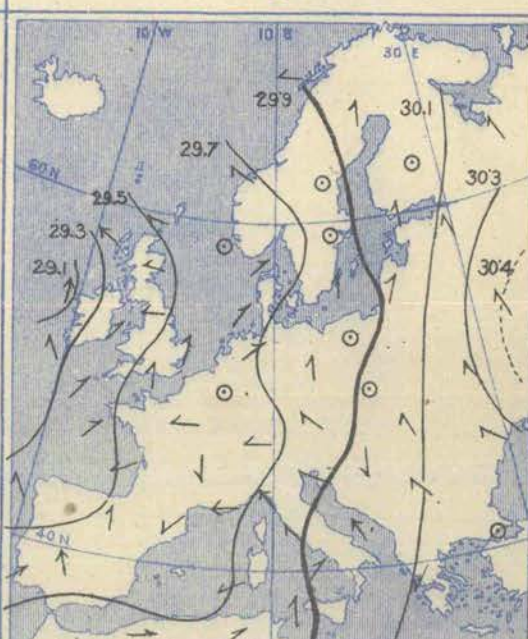


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over the greater part of England, France, Germany, and the Netherlands. Dull in nearly all other countries, with passing showers in the west of Ireland, and rain in the north east of Scotland, as well as at Lisbon, Nice, Trieste, and Buda Pesth; snow falling at several of the Scandinavian and Danish stations, and also at Hermanstadt. Showers falling later in many parts of the Kingdom, and considerable amounts of rain over the south of France, and the northern parts of Italy and the Adriatic—as much as 12 in. at Lyons, where a thunderstorm occurred.

Temperature risen over Europe as a whole, but fallen in France, and also in the extreme north of Scandinavia. Morning readings highest, 61° at Stax, 59° at Palermo, Algiers, and La Calle, and 58° at Malta. Lowest, 11° at Archangel, 12° at Moscow, and 15° at Kuopio and St. Petersburg; below the freezing point in most parts of Russia and Scandinavia, and very little above it in central Scotland. Rising during day to between 50° and 55° over England and Ireland generally, and to 56° at Scilly; exceeding 60° in many parts of southern Europe, and reaching 79° at Palermo.

Wind light to moderate from the Southward or South-Westward over the southern half of the United Kingdom, and the neighbouring parts of the Continent; Easterly or South-Easterly in Scandinavia, and the northern parts of our Islands, and strong in force on our extreme north-west coasts. Southerly or South-Easterly in Russia; variable in most of the southern countries. No important change occurring over western Europe during day, but South-Easterly breezes setting in over Italy and the Adriatic.

Barometer highest, 30.3 ins. and upwards in a large anticyclone lying over Russia. Lowest, 29.1 ins. and less in a cyclonic area off the west of Ireland; shallow and ill-defined secondary disturbances situated over various parts of western and southern Europe. Anticyclone increasing somewhat in height during day; cyclonic system off our western coasts partially dispersing.

Saturday, 1st March.

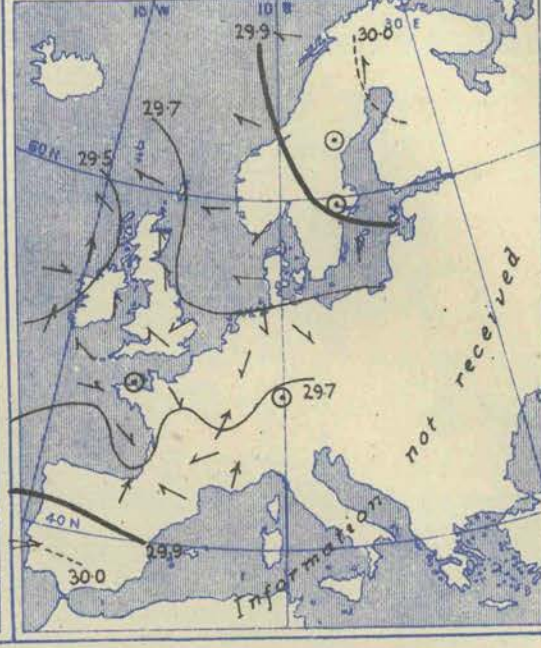
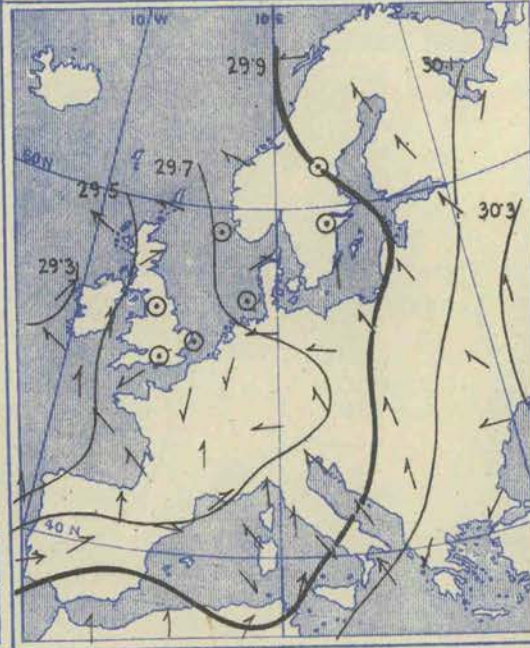
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull in nearly all regions, but fine and bright at a few stations in France and southern Europe. Rain falling at Lyons, Nice, and Madrid, and snow at Archangel. Fog prevailing over our own south-eastern districts, as well as in Denmark and the Baltic. Rain falling later in France, Germany, and the south and west of the United Kingdom.

Temperature risen over Russia and Finland, and also in Italy. Morning readings highest, 73° at Palermo, 61° at Malta, and 59° at Algiers. Lowest, 21° at Ulenborg, 22° at Archangel, and a few degrees below 32° over northern Europe generally. Lowest in our islands, 33° at Nairn. Rising later to 54° on our north-east coast, 55° at Loughborough, and 57° at Jersey. Maximum at Perpignan 64°. Temperature remaining below 32° over the north of Scandinavia.

Wind in morning Southerly to South-Easterly over our Islands, and South-Westerly over Spain and the greater part of France; Southerly or South-Easterly over central Europe and Russia. Fresh in force at some of our western stations, and at Lisbon and Biarritz, and strong at Lésina; moderate or light elsewhere. Very little change over western Europe during day.

Barometer at 8 a.m. highest, 30.3 ins. and upwards over central Russia. Lowest, 29.3 ins. and less to the westward of Ireland, and below 29.5 ins. over the Bay of Biscay. Low pressure area in west moving northwards later and filling up slowly. No information received from region of highest pressure.

GENERAL NOTES.

During the whole of this week barometrical pressure was highest in a large anticyclone lying over eastern Europe, the central portion of the system being situated at first over the south of Russia, and afterwards over the central parts of that country. In our islands and the neighbouring parts of the Continent the weather was affected by a series of cyclonic systems which appeared off our western coasts, each disturbance being attended by general falls of rain and by a considerable increase of wind from the Southward or South-eastward in the west and south-west. After striking our coasts, however, the low-pressure systems appear

to have recurved over the Atlantic in a north-westerly direction, and in the eastern portions of the kingdom the wind therefore remained light or moderate in force.

Over southern Europe the weather was influenced by shallow disturbances which formed over various parts of the Mediterranean, and which moved in an irregular manner, but mostly towards the eastward. These systems were not sufficiently deep to cause any material increase in the strength of the wind, but were of considerable size and occasioned heavy rain in many parts of Italy, Spain and the south of France.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 50.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	2.1	- 16.1	3	- 22	THURCASTON	7.8	- 10.8	11	- 14	BOURNEMOUTH	12.7	-	17	-
STRATHPEFFER SPA	5.4	- 12.1	8	- 17	MARGATE	25.6	+ 3.3	35	+ 6	SOUTHPORT	13.5	-	12	-
EDINBURGH	8.6	- 13.6	5	- 19	BROADSTAIRS	26.3	-	36	-	RHYL	1	+	+	+
MORPETH	6.0	-	8	-	EASTBOURNE	17.0	- 6.5	23	- 7	COLWYN BAY	-	-	-	-
NEWCASTLE-ON-TYNE	5.0	-	7	-	BRIGHTON	9.9	- 13.9	13	- 19	ABERDOVEY	23.1†	-	32†	-
YORK	8.2	- 10.3	11	- 14	WORTHING	13.7	-	19	-	TENBY	12.9	- 12.3	17	- 17
LOWESTOFT	22.9	-	31	-	BÖGNOE	17.3†	-	23†	-	NEWQUAY	18.1	- 6.4	24	- 8
HOLLESLEY BAY	23.5	-	32	-	WATERGATE	7.0	-	9	-	TORQUAY	15.6	- 8.4	21	- 10
SHEFFIELD	9.1	-	12	-	WESTBOURNE	14.4†	- 10.4	20†	- 13	CAHIR (Duneske)	9.3†	-	13†	-
WORKSOP	8.9	- 9.3	12	- 13	VENTNOR HOSPITAL	16.1	- 9.2	22	- 12	GUERNSEY	29.3†	+ 2.2	40†	+ 4

† The values at Hagnor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)					Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.		Difference of Daily Average from the Mean for the Week.	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.							
Week ending January 11th 1902.	York	-	-	-	-	-	-	-	-	4.5	- 1.7	9	- 3
"	Newquay	-	-	-	-	-	-	-	-	3.8	- 7.3	7	- 13
"	Lowestoft	-	-	-	-	-	-	-	-	10.6	-	19	-
"	Broadstairs	-	-	-	-	-	-	-	-	11.1	-	19	-
"	Rhyl	-	-	-	-	-	-	-	-	16.8	-	31	-

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 10.]
Fourth Series.

WEEK ENDING SATURDAY, MARCH 8TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 56.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	33	48.2	39.5	43.7	6 above	Day-deg. 22	Day-deg. +13	Day-deg. 7	Day-deg. -28	Day-deg. 67	Day-deg. - 3	Day-deg. 431*	Day-deg. + 73
	1. SCOTLAND, EAST	61	30	49.7	38.6	44.0	6 above	23	+15	10	-27	71	- 20	471	+ 64
	2. ENGLAND, N.E.	55	30	49.0	37.1	43.3	4 above	30	+15	14	-17	117	+ 19	357	+ 11
	3. ENGLAND, EAST	59	25	49.2	33.6	41.1	1 above	20	+ 2	32	- 2	119	+ 9	373	- 12
	4. MIDLAND COUNTIES	57	25	51.1	34.2	42.4	2 above	36	+16	22	- 11	145	+ 18	375	- 13
5. ENGLAND, SOUTH	59	27	50.4	36.9	43.4	2 above	31	+11	14	-12	140	- 7	272	- 25	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	35	49.4	42.0	45.6	5 above	25	+12	0	-27	107	+ 1	319	+ 30
	7. ENGLAND, N.W.	55	28	49.2	37.9	43.4	3 above	27	+13	11	-15	120	+ 9	313	+ 29
	8. ENGLAND, S.W.	61	28	51.9	37.4	44.5	2 above	37	+16	13	- 8	176	+ 1	243	+ 20
	9. IRELAND, NORTH	53	39	49.7	42.5	46.0	5 above	28	+10	0	-24	127	- 20	238	- 9
	10. IRELAND, SOUTH	59	31	51.6	39.0	45.1	2 above	34	+10	8	- 9	202	- 17	183	- 6
	-CHANNEL ISLANDS-	57	35	52	41.0	46.4	2 above	35	+ 8	3	- 5	272	+ 21	97	+ 4

DISTRICTS. (See p. 56.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 13	10ths of in. 5 less	51	+ 4	10.5	- 0.8	7	-12	9	-15	98	- 10	17	- 2
	1. SCOTLAND, EAST	4	3	3 less	36	- 2	3.6	- 2.4	9	-12	12	-16	113	- 27	19	- 4
	2. ENGLAND, N.E.	2	1	4 less	30	- 6	2.3	- 1.4	8	-17	11	-21	115	- 25	18	- 4
	3. ENGLAND, EAST	5	1	3 less	32	- 6	2.3	- 1.9	18	- 8	23	-11	173	- 10	23	- 2
	4. MIDLAND COUNTIES	1	less than half	4 less	28	- 8	3.2	- 1.8	16	- 6	20	- 7	120	- 9	21	- 2
5. ENGLAND, SOUTH	1	1	4 less	27	-10	3.3	- 2.1	27	0	35	0	170	- 1	25	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	14	5 more	44	0	10.2	- 1.1	10	-11	14	-14	97	- 29	16	- 5
	7. ENGLAND, N.W.	3	3	3 less	37	- 2	5.1	- 1.3	17	- 7	22	- 9	136*	- 1	21	- 1
	8. ENGLAND, S.W.	1	less than half	7 less	32	-10	4.9	- 3.7	29	+ 4	38	+ 5	166	+ 1	26	- 1
	9. IRELAND, NORTH	5	4	1 less	45	+ 1	6.6	0.0	5	-16	7	-20	101	- 39	16	- 7
	10. IRELAND, SOUTH	1	1	6 less	33	-12	6.5	- 2.3	16	- 3	21	-10	141	- 19	23	- 3
- CHANNEL ISLANDS-	0	0	6 less	36	- 8	4.1	- 2.8	44	+11	57	+14	183	- 26	26	- 4	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was generally fair over the greater part of the Kingdom, although mist or fog was very prevalent at times over England. In the extreme northern and north-western districts the sky was generally overcast, and small amounts of rain fell frequently.

Temperature was above the mean in all districts; in England E. the excess was only 1°, and over the more southern parts of the Kingdom 2°, but in England N.E., Ireland N. and Scotland W. it was 5°, and in Scotland N. and E. as much as 6°. The highest of the maxima were registered, as a rule, either on the 6th or 7th, but occurred in some places earlier in the week. They ranged from 61° in Scotland E. and England S.W. to 54° in Scotland W. and to 53° in Scotland N. and Ireland N. The lowest of the minima were mostly recorded during the latter half of the week, and ranged from 25° in England E. and the Midland Counties to 33° in Scotland N., 35° in Scotland W. and the Channel Islands, and to 39° in Ireland N.

Rainfall was much less than the mean in nearly all districts, but considerably more than the normal in Scotland W.

Bright Sunshine exceeded the mean amount in England S.W. and the Channel Islands, and just equalled it in England S. In all other parts of the Kingdom, however, it was in defect

The percentage of the possible duration ranged from 57 in the Channel Islands and 38 in England S.W. to between 14 and 12 in several of the more northern districts, 9 in Scotland N. and to 7 in Ireland N.

Barometer and Wind.—During the early part of the week pressure was highest in Scandinavia, and depressions of no great depth were affecting our western districts and causing Southerly winds over our islands generally. By the middle of the week the highest pressure had become transferred to Central Europe, whence a ridge of relatively high readings extended westwards to Ireland. Barometric minima were shown at this time both to the northward of Scotland and over the Bay of Biscay, so that South-Westerly and Westerly winds were felt in our northern districts and Easterly breezes in the south. Towards the end of the period the high-pressure over Germany gave way, leaving the barometer highest over Ireland; quite at the end of the week this high-pressure area moved considerably more to the southward and a disturbance was travelling quickly from the Pentland Firth to Holstein and at the same time increasing in depth. This system caused strong winds or slight gales on some parts of our northern and eastern coasts.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
											Inches.					
O. SCOTLAND, N	Sumburgh Head	48	33	44.4	37.9	41.1	+ 3.4	7	16	7	1.40	+ 0.71	*	*	*	*
	Stornoway	50	38	48.6	39.1	43.7	+ 4.5	24	8	7	1.31	+ 0.47	4.1	- 16.6	5	- 22
	Wick	50	38	47.1	39.6	43.2	+ 4.6	18	7	6	0.50	+ 0.02	*	*	*	*
	Laig	52	34	49.8	36.9	43.2	+ 6.8	30	14	7	0.93	+ 0.23	*	*	*	*
	Glencarron	51	38	48.7	39.9	44.2	+ 6.7	24	6	7	2.76	+ 1.15	*	*	*	*
	Fort Augustus	53	38	49.3	40.6	45.1	+ 6.3	28	4	7	0.43	- 0.35	7.7	- 7.0	10	- 9
	Fort William	51	41	49.0	42.4	45.6	+ 6.0	25	0	7	1.82	+ 1.28	6.8	- 11.6	9	- 15
1. SCOTLAND, E	Nairn	55	30	51.3	33.0	44.5	+ 5.7	34	11	5	0.39	+ 0.02	*	*	*	*
	Aberdeen	54	35	50.3	38.9	44.4	+ 5.2	30	9	7	0.32	- 0.22	9.4	- 14.7	13	- 19
	Braemar	49	30	46.1	37.3	41.6	+ 6.1	11	19	3	0.24	- 0.34	*	*	*	*
	Ochertyre	61	34	51.4	39.0	45.0	+ 6.0	34	8	5	3.37	- 0.34	*	*	*	*
	Leith	54	37	51.6	41.3	46.3	+ 5.7	33	2	1	0.03	- 0.30	*	*	*	*
	Marchmont	50	33	47.7	37.0	42.2	+ 4.0	22	14	1	0.22	- 0.34	7.3	- 14.0	10	- 18
	Marchmont	50	33	47.7	37.0	42.2	+ 4.0	22	14	1	0.22	- 0.34	7.3	- 14.0	10	- 18
2. ENGLAND N.E.	Alnwick Castle	55	35	50.6	38.9	44.6	+ 5.4	31	9	4	0.10	- 0.44	*	*	*	*
	Durham	52	30	49.6	35.5	42.3	+ 3.2	29	18	0	0.00	- 0.44	7.9	- 14.7	10	- 19
	Shields	55	34	50.0	38.3	43.0	+ 3.1	31	16	0	0.00	- 0.38	*	*	*	*
	Scarborough	55	34	51.5	35.9	43.5	+ 3.2	36	17	5	0.16	- 0.28	15.3	-	20	-
	Spurn Head	51	31	46.9	35.1	40.8	+ 1.0	14	26	1	0.04	- 0.26	*	*	*	*
	Fulbeck (Lincolnshire)	53	35	50.9	40.7	45.7	+ 6.2	31	4	1	0.05	- 0.27	*	*	*	*
	Fulbeck (Lincolnshire)	53	35	50.9	40.7	45.7	+ 6.2	31	4	1	0.05	- 0.27	*	*	*	*
3. ENGLAND, E.	Hillington	53	28	49.7	33.9	41.6	+ 1.4	22	32	7	0.13	- 0.29	10.9	- 12.5	14	- 16
	Yarmouth	50	30	45.3	33.7	39.3	- 0.2	9	30	5	0.18	- 0.22	*	*	*	*
	Geldeston	57	25	50.5	32.1	41.0	+ 0.6	24	39	4	0.13	- 0.23	15.8	- 9.9	21	- 12
	Cambridge	59	27	52.8	34.0	43.1	+ 2.5	41	22	3	0.04	- 0.29	18.4	- 6.4	24	- 8
	Felixstowe	50	31	46.3	35.4	40.7	+ 0.3	12	25	4	0.09	-	23.3†	-†	30†	-†
	Rothamsted	56	25	50.4	32.3	41.1	+ 1.3	24	38	5	0.13	- 0.28	17.9	- 5.7	23	- 8
	Rothamsted	56	25	50.4	32.3	41.1	+ 1.3	24	38	5	0.13	- 0.28	17.9	- 5.7	23	- 8
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	28	51.4	33.9	42.4	+ 2.1	37	23	1	0.02	- 0.34	*	*	*	*
	Loughborough	55	25	52.6	33.7	42.9	+ 2.5	41	23	2	0.04	- 0.34	*	*	*	*
	Colly Weston (Stamford)	57	28	51.1	32.6	41.6	+ 2.0	25	38	2	0.03	-	*	*	*	*
	Cheadle	52	31	48.5	35.8	42.0	+ 2.9	18	17	2	0.10	- 0.43	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	54	29	50.6	36.5	43.3	+ 3.2	32	15	0	0.00	- 0.35	8.8	-	11	-
	Churchstoke	55	29	52.5	34.7	43.3	+ 3.8	40	20	1	0.02	- 0.46	23.1	- 0.3	30	0
	Hereford	56	29	51.9	33.5	42.4	+ 1.4	39	24	0	0.00	- 0.41	*	*	*	*
	Cirencester	55	27	51.1	33.0	41.8	+ 2.3	25	36	3	0.03	- 0.47	21.1	- 2.6	27	- 4
	Oxford	56	27	50.1	33.9	41.8	+ 0.8	23	33	1	0.06	- 0.29	9.6	- 13.2	12	- 18
	Oxford	56	27	50.1	33.9	41.8	+ 0.8	23	33	1	0.06	- 0.29	9.6	- 13.2	12	- 18
5. ENGLAND, S.	London	55	30	49.6	34.3	41.7	+ 0.2	21	31	2	0.06	- 0.30	7.3†	- 8.5†	9†	- 12†
	Swarraton (Alresford)	59	27	51.7	32.9	42.0	+ 2.2	27	25	1	0.06	- 0.46	*	*	*	*
	Dungeness	52	36	48.1	37.3	42.5	+ 1.7	23	13	1	0.02	- 0.30	27.0	-	35	-
	Hastings (St. Leonards)	56	33	50.3	38.1	44.0	+ 2.7	30	11	2	0.05	- 0.41	32.2	+ 4.5	42	+ 7
	Southampton	58	29	52.5	36.9	44.5	+ 2.0	39	14	2	0.11	- 0.39	27.0	+ 1.3	35	+ 2
	Portland Bill	53	37	48.3	40.1	44.1	+ 0.8	23	5	0	0.00	-	*	*	*	*
	Shaftesbury	56	34	52.2	38.4	45.1	+ 5.0	37	10	1	0.02	- 0.51	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	41	50.0	43.1	46.5	+ 5.8	32	0	7	2.97	+ 1.50	*	*	*	*
	Glasgow	52	39	48.4	42.2	45.2	+ 5.7	22	0	6	0.40	- 0.23	10.4	- 6.1	14	- 8
	Gally	54	35	50.1	40.1	45.0	+ 4.9	29	5	5	1.97	+ 1.11	*	*	*	*
	Douglas (Isle of Man)	53	41	48.9	42.5	45.6	+ 4.3	25	0	3	0.32	- 0.38	9.5	- 16.1	13	- 20
	Douglas (Isle of Man)	53	41	48.9	42.5	45.6	+ 4.3	25	0	3	0.32	- 0.38	9.5	- 16.1	13	- 20
7. ENGLAND, N.W	Newton Reigny	55	30	49.9	36.1	42.8	+ 4.5	30	17	2	0.12	-	20.0	-	26	-
	Stonyhurst	49	30	48.1	36.9	42.3	+ 2.5	24	14	3	0.37	- 0.42	12.4	- 8.4	16	- 11
	Blackpool	51	28	47.2	36.5	41.7	+ 1.1	15	22	5	0.26	- 0.26	5.8	- 15.1	8	- 19
	Manchester (Prestwich)	54	32	50.3	37.8	43.9	+ 4.1	31	12	2	0.30	- 0.24	8.1	-	11	-
	Liverpool Obsy. (Bidston)	53	32	49.1	37.1	42.9	+ 1.7	27	14	3	0.24	- 0.15	8.2	-	11	-
	Chester	54	30	51.6	37.6	44.4	+ 2.7	35	2	2	0.12	-	*	*	*	*
	Llandudno	55	36	49.8	40.6	45.1	+ 2.5	28	4	4	0.45	- 0.02	24.3	+ 1.8	32	+ 3
8. ENGLAND, S.W.	Holyhead	50	35	47.9	40.6	44.1	+ 1.8	21	4	2	0.15	- 0.38	*	*	*	*
	Llandoverly	61	28	55.4	35.7	45.3	+ 4.7	50	18	4	0.15	- 0.70	*	*	*	*
	Pembroke	50	36	48.3	40.4	44.2	+ 1.6	22	4	1	0.02	- 0.55	21.6	- 5.0	28	- 6
	Clifton	55	30	51.6	36.2	43.7	+ 1.8	36	16	0	0.00	- 0.54	*	*	*	*
	Bath	57	29	53.3	35.0	43.9	+ 2.4	43	20	1	0.01	-	19.5	-	25	-
	Arlington (N. Devon)	56	29	51.6	35.4	43.3	+ 2.5	37	18	0	0.00	- 0.85	*	*	*	*
	Cullompton	59	28	53.0	35.1	43.8	+ 1.3	42	19	1	0.02	- 0.55	26.7	+ 2.4	35	+ 3
9. IRELAND, N.	Falmouth	54	35	50.2	41.0	45.5	+ 1.3	29	3	1	0.02	- 0.78	42.6	+ 14.8	55	+ 19
	Plymouth	56	33	51.5	40.6	45.9	+ 2.4	33	4	0	0.00	- 0.62	37.7	+ 10.9	49	+ 15
	Plymouth	56	33	51.5	40.6	45.9	+ 2.4	33	4	0	0.00	- 0.62	37.7	+ 10.9	49	+ 15
	Malin Head	51	42	47.6	43.4	45.4	+ 3.5	24	0	7	0.70	-	*	*	*	*
	Edenfel (Omagh)	52	39	49.4	42.3	45.8	+ 6.2	27	0	5	0.19	- 0.38	*	*	*	*
	Blacksod Point	52	39	50.3	43.7	46.9	+ 3.6	34	0	7	1.04	-	*	*	*	*
	Markree Castle	53	40	51.1	42.5	46.7	+ 5.2	33	0	4	0.30	- 0.36	3.9	- 17.1	5	- 22
10. IRELAND, S.	Armagh	52	41	50.4	42.2	46.2	+ 5.4	29	0	4	0.13	- 0.34	5.7	- 14.9	8	- 19
	Donaghadee	51	40	49.6	40.7	45.0	+ 3.3	26	4	4	0.10	- 0.37	*	*	*	*
	Dublin	53	37	52.3	41.2	46.6	+ 3.7	36	2	1	0.03	- 0.44	13.6	- 10.7	18	- 13
	Parsonstown	55	35	51.7	38.6	45.0	+ 3.5	35	10	2	0.03	- 0.47	10.3	- 12.0	13	- 16
	Kilkenny	55	31	51.4	37.6	44.3	+ 1.8	35	12	0	0.00	- 0.50	*	*	*	*
	Roche's Point	53	35	49.1	41.0	44.9	+ 0.6	25	3	0	0.00	- 0.85	*	*	*	*
	Valencia	53	32	51.1	37.4	44.1	- 1.1	34	13	3	0.22	- 0.78	24.1	- 1.9	31	- 2
CHANNEL ISLANDS	Killarney	59	35	53.9	38.7	46.1	+ 2.3									

Stations marked *fl* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

Sunday, 2nd March.

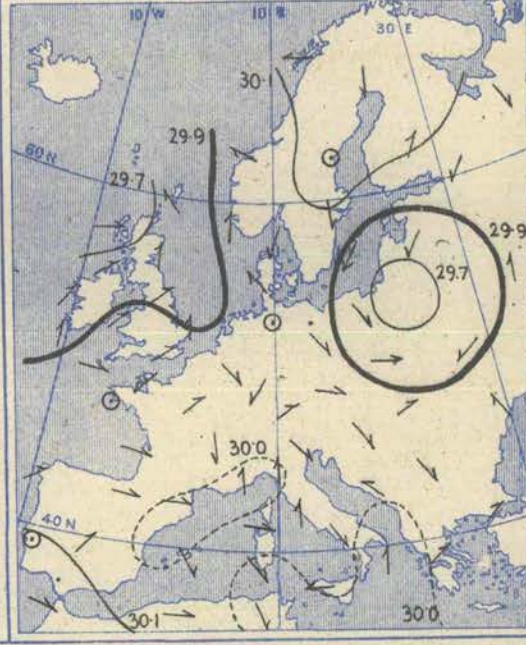
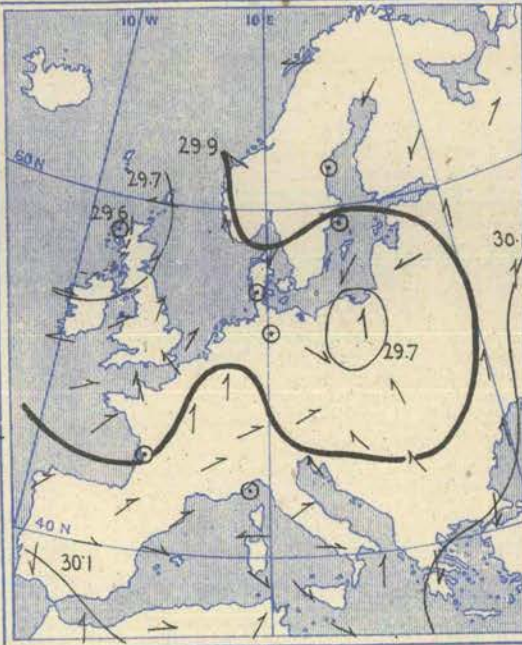
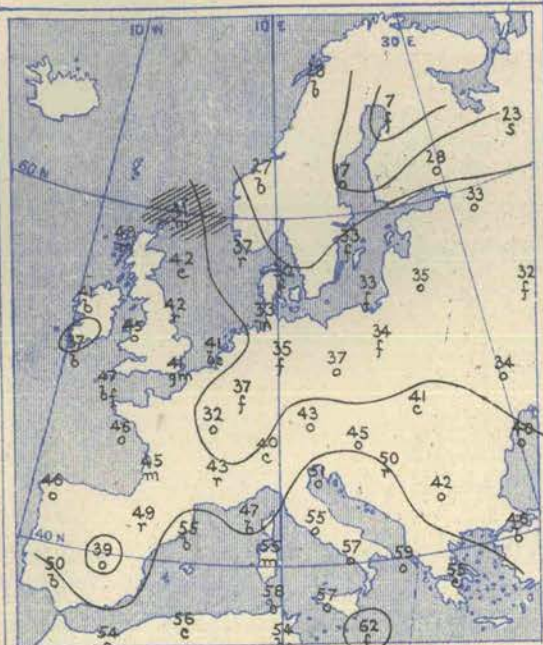
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over our Islands and the Continent generally, with rain in some parts of central England, the south of France, and the north of Spain, as well as at Skudenes, Swinemünde, Warsaw, and Buda Pesth. Fog very general over the Netherlands, Denmark, Sweden, the Baltic, and the Gulf of Finland. Showers falling later in the eastern and central parts of Great Britain, and steady rain in Germany and the west and south of France.

Temperature fallen over Sweden, the Netherlands, and the greater part of southern Europe, but risen elsewhere. Morning readings highest, 62° at Malta, 59° at Brindisi, and 58° at Cagliari; above 50° at most of the Mediterranean and Adriatic stations. Lowest, 7° at Uleaborg, 11° at Haparanda, 17° at Hernösand, and 23° at Archangel; below the freezing point in most parts of Russia and Scandinavia. Rising during day to 50° and upwards over a considerable portion of the United Kingdom, and to 55° in London and at Aberdeen; exceeding 60° in many parts of southern Europe, and reaching 72° at Malta.

Wind light from the South-Westward over the western parts of the United Kingdom generally, but variable in the south of Ireland; Southerly in all our more eastern districts; South-Easterly in the west of Norway. Cyclonic circulation of light breezes reported over Denmark, Germany, and the Baltic; Westerly or South-Westerly over the southern parts of France; variable over Italy and the Spanish Peninsula. Subsequently backing to the Southward in the west of Ireland; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in the south of Russia; 30.1 ins. and upwards over Morocco and the southern parts of the Spanish Peninsula. Lowest, 29.6 ins. and less in a cyclonic system lying off the west of Ireland; 29.8 ins. and less in a well-marked depression over the St. George's and Bristol Channels; 29.7 ins. and less in a depression over eastern Germany. Cyclonic system off our north-west coasts subsequently travelling northwards; depression over eastern Germany moving slowly eastwards.

Monday, 3rd March.

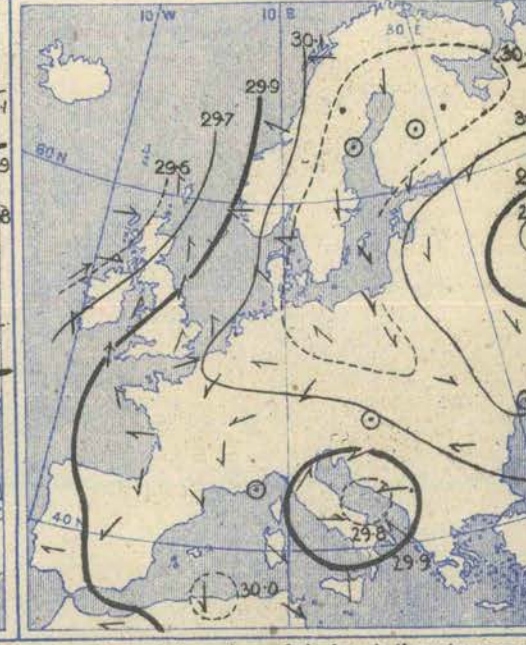
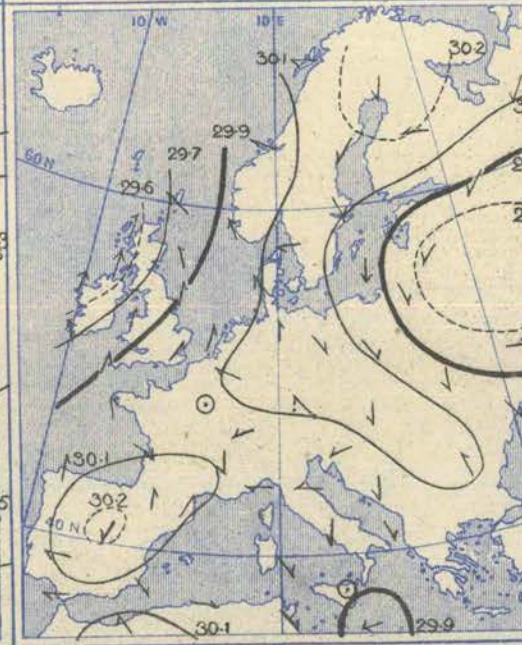
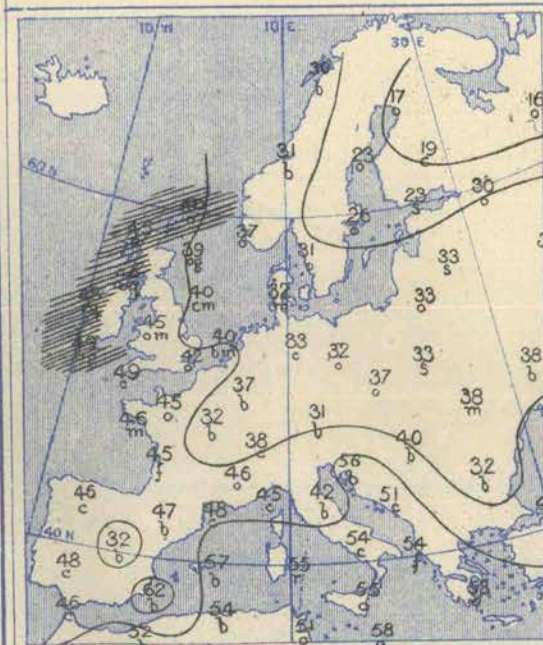
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy over the greater part of our Islands, and the northern and central parts of the Continent, with rain at some of the Irish stations, and snow at Hangö, Riga, Warsaw, and Moscow; fine on the east coasts of England, and also in the west of Norway. Foggy in the eastern parts of the Channel, and in the west of France, but fine over France and Spain as a whole; cloudy in Italy and Greece. Sky clearing later in many parts of England, but rain falling in Ireland and Scotland, and snow in the south of Sweden.

Temperature fallen generally, but risen in Ireland and the north of Scotland. Morning readings highest, 62° at Alicante, 58° at Athens and Malta, and 57° at Palma; above 60° at most of the Mediterranean and Adriatic stations, and very little below it on our own extreme west and south-west coasts. Lowest, 16° at Archangel, 17° at Haparanda, and 19° at Kuopio; below the freezing point over northern Europe generally, as well as in some parts of Germany and central France. Rising during day to 50° and upwards at most of the English and Irish stations, and to 55° at Scilly; reaching 60° at Paris, and exceeding 60° in many parts of southern Europe, the highest reading reported being 64° at Croisette and Cape Béarn.

Wind Southerly over our Islands generally, and strong to a gale in force in the extreme west, South-Easterly or Easterly on the eastern shores of the North Sea; Northerly or North-Easterly over Sweden and northern Russia; North-Westerly over eastern Germany; Northerly over the southern parts of Italy and the Adriatic; Easterly in the extreme south of France, and the southern parts of the Spanish Peninsula. Subsequently veering to the Westward on our extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying over the northern parts of Sweden and Finland; 30.1 ins. and upwards in another system lying over Spain and the south of France. Lowest, 29.6 ins. and less in a cyclonic area lying off our own extreme north-west coasts; 29.8 ins. and less in another disturbance over western and central Russia; 29.9 ins. and less in a small shallow system with its centre near Malta. Cyclonic system off our north-west coasts subsequently moving northwards; disturbance over Russia travelling slowly eastwards.

Tuesday, 4th March.

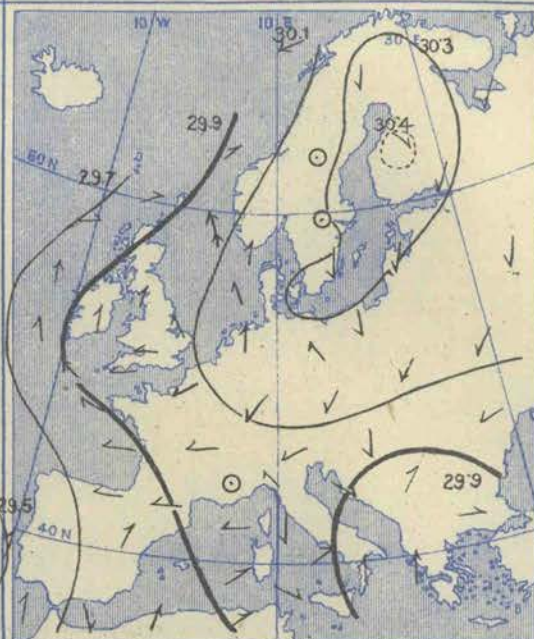
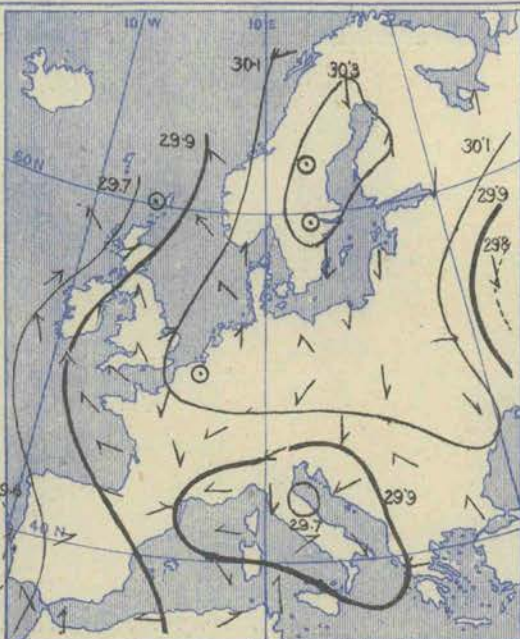
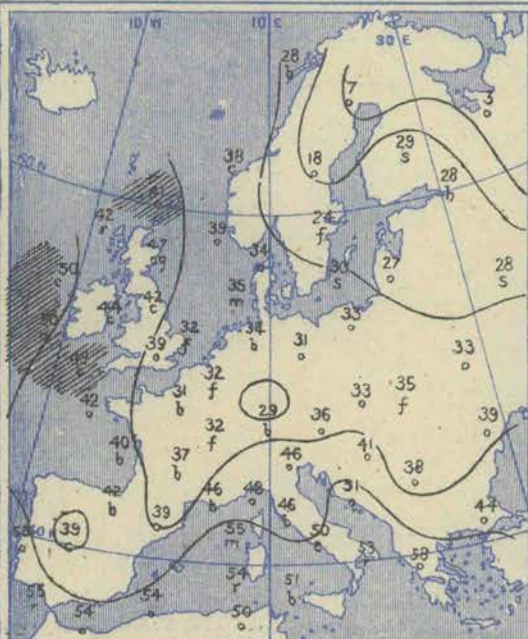
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over north-western, northern, and eastern Europe generally, with snow at Stornoway, and rain at several stations in Russia and the south of Scandinavia. Foggy over the Netherlands and the south and east coasts of England. Fine in France and the western and southern parts of Germany; dull over Austria, Italy, and the Spanish Peninsula, with rain at Pesaro, Palermo, and San Fernando. Sky clearing later in many parts of England, but rain falling on our extreme north and north-west coasts.

Temperature risen in the west and north of our Islands, and also in Norway and Denmark, but fallen elsewhere. Morning readings highest, 58° at Athens and Patras, and 55° at Sanguisire, San Fernando, and Algiers; above 50° at most of the Mediterranean and Spanish coast stations, and just touching that point in the west of Ireland. Lowest, 3° at Archangel, 7° at Haparanda, 9° at Uleaborg, and 18° at Helsingfors; below the freezing point over northern Europe generally, as well as in central France and south Germany. Rising during day to 50°, or slightly above it, in many parts of the United Kingdom, and to 55° at Shields; exceeding 60° over Spain and the southern parts of France and Italy, and reaching 66° at Croisette.

Wind light to moderate from the Eastward or North-Eastward over the Channel, France, and Germany; Southerly over the United Kingdom generally, and strong in force in the west of Ireland; South-Easterly on the eastern shores of the North Sea; variable over Russia, Austria, Italy, and the south of France; no important change occurring during day.

Barometer highest, 30.3 ins. and upwards over the Gulf of Bothnia and the neighbouring parts of Finland and Sweden; 30.1 ins. and upwards in an anticyclone lying over northern and central Europe generally. Lowest, 29.6 ins. and less in a cyclonic area off the Portuguese coasts; 29.7 ins. and less in two other disturbances—one lying off the north-west of Scotland, and the other over the northern part of the Adriatic; 29.8 ins. and less in a depression over central Russia; no important change occurring during day.

Wednesday, 5th March.

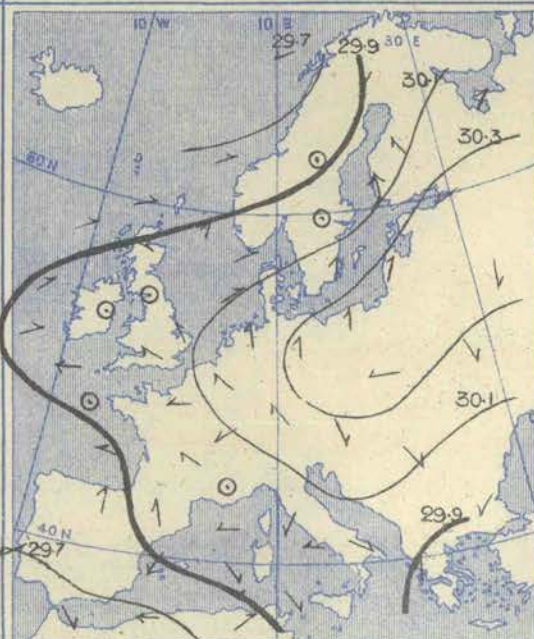
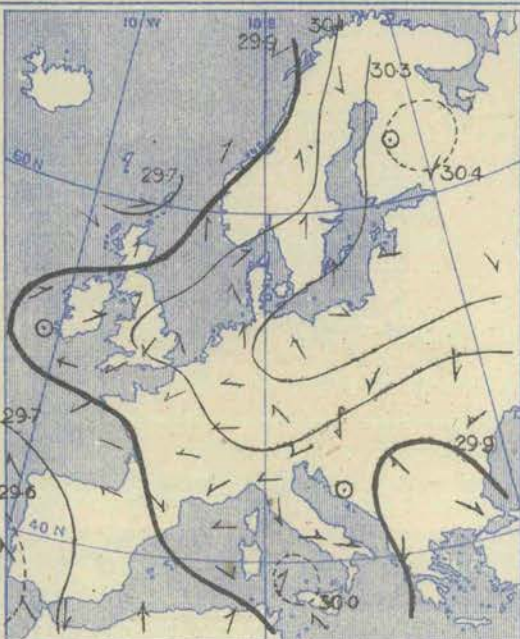
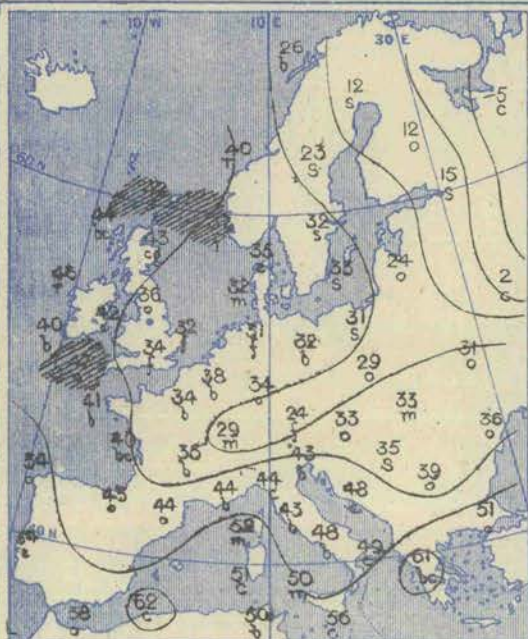
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning foggy over nearly the whole of England, and also in Denmark, north Germany, and the south of Scandinavia. Cloudy or dull in Ireland and Scotland, with rain on our extreme north and north-west coasts, as well as at Christiansund; snow falling very generally over Sweden and the Gulf of Finland, and also at Buda Pesth and Nicolaieff. Fine over the Netherlands, France, and Italy, but cloudy over the Spanish Peninsula. Sky clearing later in many parts of England, and rain ceasing on our extreme north and north-west coasts; no important change occurring elsewhere.

Temperature fallen in all but the extreme northern parts of the United Kingdom, and also in Russia, Austria, and Italy, risen in Scandinavia, changed irregularly elsewhere. Morning readings highest, 62° at Algiers, 61° at Athens, and 60° at Patras; above 50° at the Mediterranean and Spanish coast stations generally, and very little below it in some parts of Scotland. Lowest, - 5° Fahr. at Archangel, + 2° at Moscow, and 11° at Uleaborg; below the freezing point over northern and central Europe generally, and also over central England. Rising during day to between 50° and 55° at many of our own northern and central stations; exceeding 60° in the west and extreme south of France, and also in Spain and southern Italy.

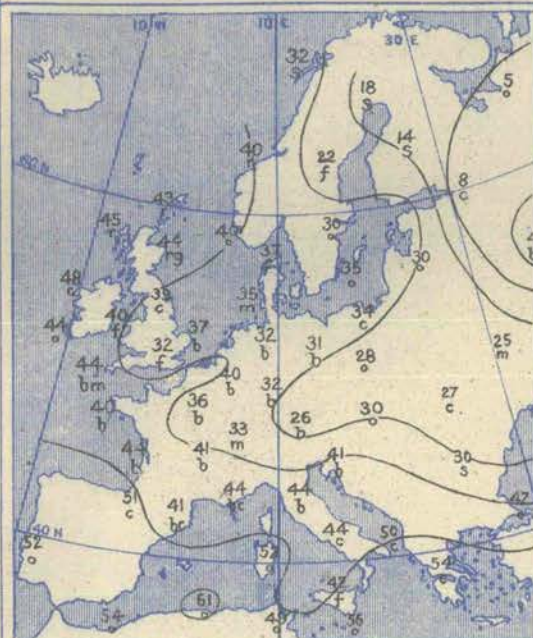
Wind Easterly or South-Easterly over Germany, France, Spain, and the south of England, light in force in most places, but fresh at the mouths of the English and Bristol Channels. Light from the South-Westward or Westward in the more northern parts of the United Kingdom; Southerly in Scandinavia and Denmark, with a gale at Skudesnes. Variable in Greece; moderate from between North and West over southern Italy. Subsequently veering to the South-Westward in Norway; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards in Finland; 30.0 ins. and upwards in an anticyclone covering the greater part of northern and central Europe, and extending westwards over England and Ireland. Lowest, 29.6 ins. and less in a cyclonic area off the Portuguese coasts; 29.7 ins. and less in another disturbance lying to the northward of the Shetlands; 29.9 ins. and less in a large shallow area over south-eastern Europe. Depression off our northern coasts subsequently moving north-eastwards; no important change occurring elsewhere.

Thursday, 6th March.

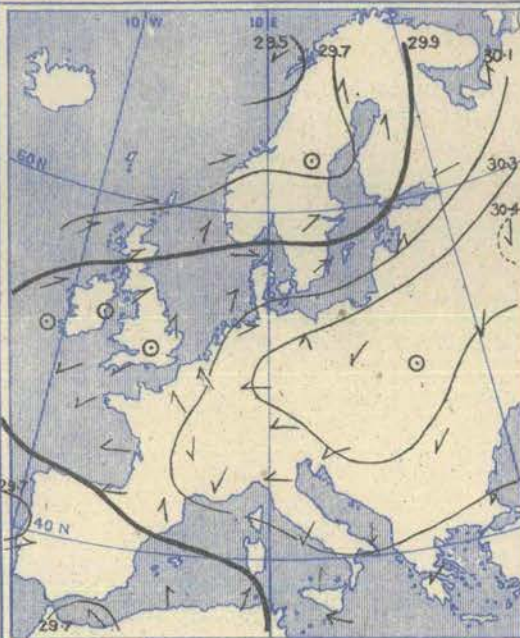
Temperature and Weather.

8 a.m.

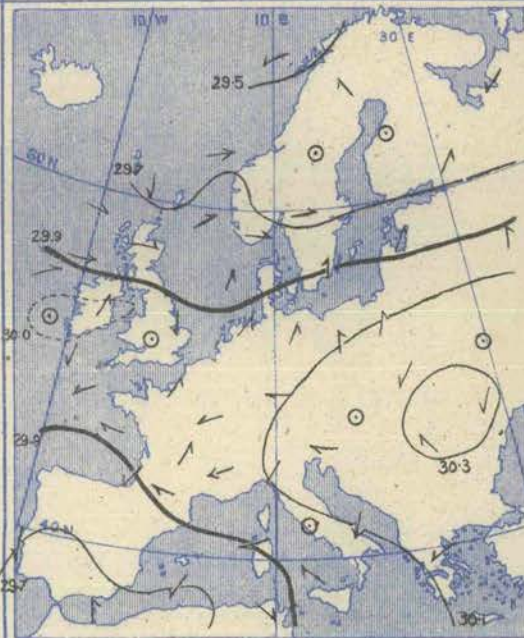


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over western Germany, the Netherlands, our south-east coasts, the greater part of France, and north of Italy; cloudy or dull in nearly all other places. Thick fog prevalent in most parts of England and the south of Ireland. Rain falling at some of our own north-western and northern stations, and in the west of Norway, and snow over the north of Scandinavia, and in Finland, and also at Hermanstadt. Fog clearing in most places during day, and snow ceasing to fall in Finland.

Temperature fallen in east and south of the Continent, changed irregularly elsewhere. Readings at 8 a.m. highest, 61° at Algiers, 57° at Palma, 56° at Malta, and above 50° on the Spanish coast, and over the southern parts of the Mediterranean generally. Lowest, -4° at Moscow, +5° at Archangel, 8° at St. Petersburg, and below the freezing point over northern and central Europe, as well as over central England. Rising later to 55° or 56° in the region just named, to 64° at Brest and western Algeria, and to 77° at Algiers.

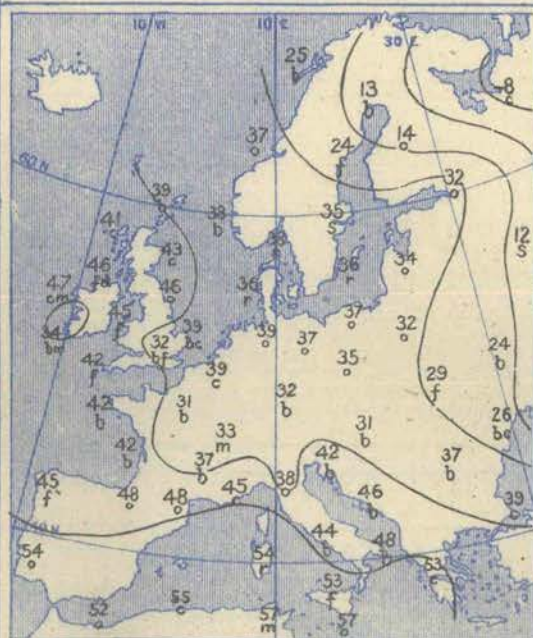
Wind in morning light to moderate or fresh from between West and South-West over the northern half of our area (but Easterly at Bodø), and light to fresh or strong from between North and East in most southern regions; fresh or strong from the Southward in Algeria, and West-South-Westerly at Lisbon. No great change during day as a whole, but wind veering to the Northward at Lisbon, and decreasing in force to a light air over the Baltic and the Gulf of Finland.

Barometer fallen quickly over northern, and risen slowly over southern Europe. Readings at 8 a.m. highest, 30.4 ins. in central Russia, and above 30.2 ins. in a long anticyclonic zone extending from that region to all the central parts of Europe. Lowest, 29.5 ins. and less in a cyclonic disturbance near Bodø, and below 29.7 ins. in two other systems—one over Portugal, and the other near Nemours. High pressure area decreasing in height and moving southwards later, and the cyclonic disturbances travelling slowly eastwards.

Friday, 7th March.

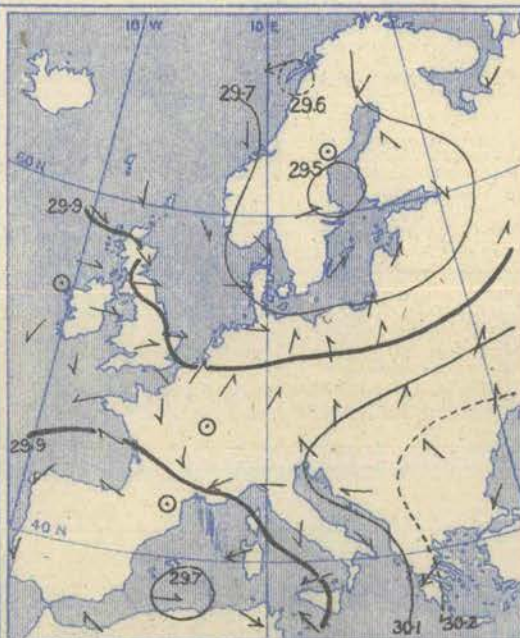
Temperature and Weather.

8 a.m.

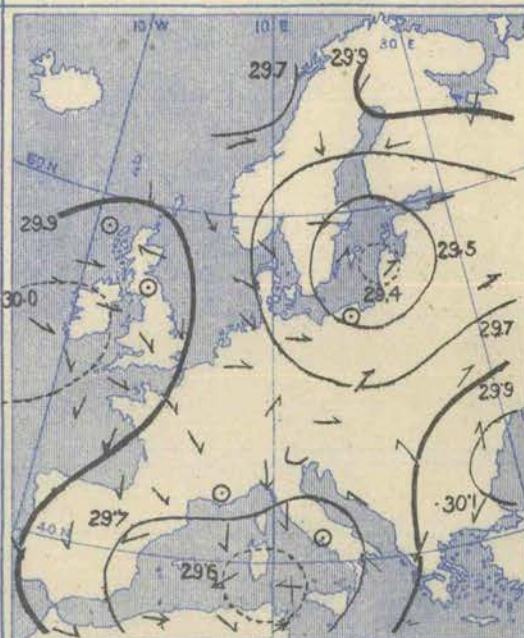


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning foggy at many of the English stations, and cloudy or dull in most other parts of north-western, northern, and central Europe; rain falling in some parts of Ireland, and also in Denmark and the south of Sweden, and snow at Stockholm and Moscow. Fine in France, and also over Austria, Italy, and south Germany; cloudy over the Spanish Peninsula, with rain at Barcelona. Slight rain falling later over the northern parts of the United Kingdom generally, and considerable amounts over southern Italy and Algeria.

Temperature risen considerably over central England, and to a less extent over Holland, Germany, and Austria, changed irregularly elsewhere. Morning readings highest, 59° at La Calle, 57° at Tunis and Malta, and 55° at Sanguinette and Algiers; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, -8° Fahr. at Archangel, +10° at Kharkov, 12° at Moscow, and 13° at Haparanda; slightly below the freezing point in some parts of Austria, south Germany, and central France. Rising during day to 60° and upwards in several parts of the United Kingdom, and to 57° at Jersey. Exceeding 60° in the west of France, and in many parts of southern Europe, and reaching 68° at Brest.

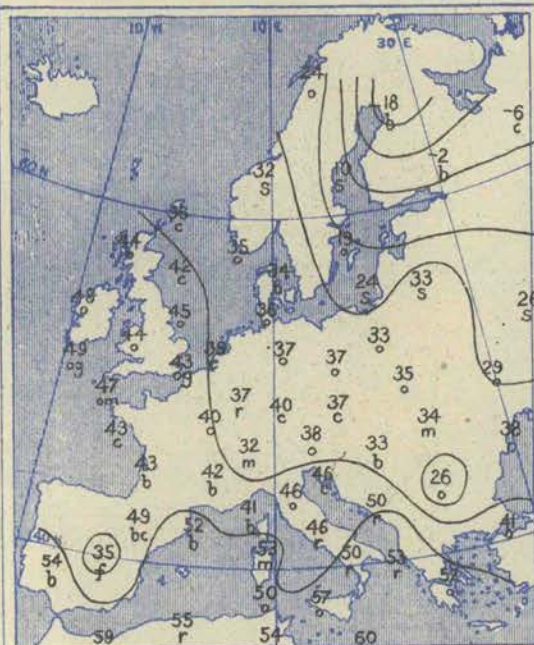
Wind light from the Westward or North-Westward over the greater part of the United Kingdom, and also in Denmark; South-Westerly or Southerly over Germany and the Baltic; South-Easterly in Finland; Easterly or North-Easterly in the north of Scandinavia. Light from the Northward on our own south-west coasts, and also over central France, Italy, and Greece; Easterly over the Bay of Biscay and the Spanish Peninsula. Subsequently veering to the North-Westward in Denmark; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in an anticyclone over south-eastern Europe; 30.0 ins. and upwards in another system lying over and to the westward of Ireland. Lowest, 29.5 ins. and less in a cyclonic area with its centre over the southern part of the Gulf of Bothnia; 29.7 ins. and less in a shallow disturbance lying off the Algerian coasts. Northern low pressure system subsequently moving southwards to Baltic Provinces; Algerian disturbance moving eastwards; both depressions growing somewhat deeper.

Saturday, 8th March.

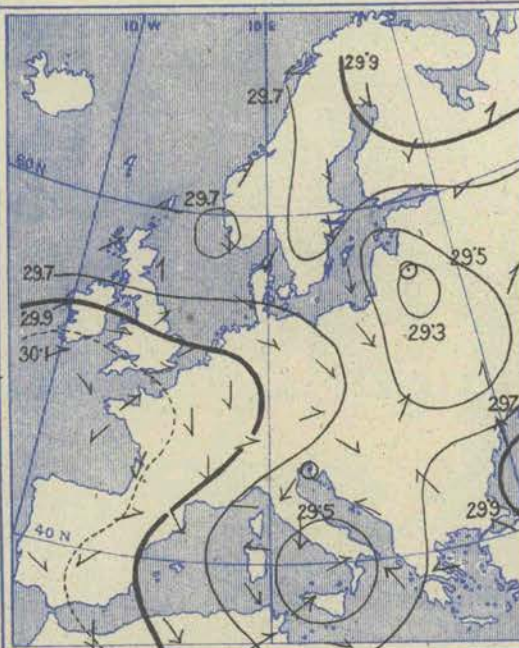
Temperature and Weather.

8 a.m.

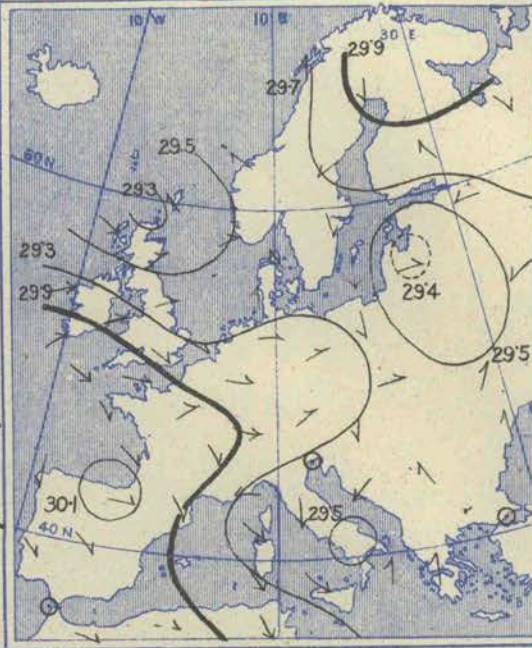


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain over nearly the whole of Italy, and also at Brussels, Breslau, and Cracow; snow falling in many parts of Scandinavia, and northern and central Russia. Fine over France, Austria, and the Spanish Peninsula. Rain falling later in many parts of western and central Europe, considerable amounts reported over southern Italy—as much as 1.3 ins. at Palermo.

Temperature risen over the south of our Islands, France, and the greater part of central and southern Europe, fallen elsewhere—quickly in Sweden and Finland. Morning readings highest, 60° at Malta, 59° at Nemours, 58° at Oran, and 57° at Palermo; above 50° at most of the Mediterranean and Spanish coast stations, and very little below it on the west coast of Ireland. Lowest—18° Fahr. at Haparanda—9° at Hernösand, and—6° at Archangel; considerably below the freezing point over northern Europe generally. Rising during day to 50°, or slightly above it, in several parts of the United Kingdom, and to 54° at Aberdeen; exceeding 55° in the west of France, and exceeding 60° in many parts of western Europe.

Wind light from the South-Westward or Westward over the United Kingdom as a whole; light from the North-Westward over the English Channel, from the Northward over the Netherlands and central France, and from the North-Eastward over the Bay of Biscay. Moderate to strong from the Eastward in Finland, and from the Northward in Sweden; moderate from the North-Westward over Denmark and eastern Germany; South-Westerly or Southerly over central and southern Russia. Cyclonic circulation of moderate to strong breezes reported over Italy, the Adriatic, and the western parts of the Mediterranean.

Barometer highest, 30.0 ins. and upwards in an anticyclone extending from the Atlantic over the south-west of our Islands, the north-west of France, and the western parts of the Spanish Peninsula; 29.9 ins. and upwards in the extreme northern parts of Sweden and Russia. Lowest, 29.3 ins. and less in a cyclonic system with its centre near Riga; 29.5 ins. and less in another disturbance over Italy, with its centre near Naples. Well-marked depression appearing later off the north of Scotland and moving quickly south-eastwards across the North Sea at night.

GENERAL NOTES.

At the beginning of this week the barometer was highest over the south of Russia, but high over the northern parts of Scandinavia, and also over Morocco and the south of Spain. A shallow low-pressure system was skirting the north-west of Scotland, and another was lying over eastern Germany, each disturbance being accompanied by a cyclonic circulation of light moderate breezes; rain and fog prevailed in many parts of north-western, northern and central Europe.

On the 3rd and 4th, the low-pressure area over Germany moved away steadily eastwards across Russia, and in its rear a definite anticyclone extended from the northward over a considerable portion of Northern and Central Europe. In our Islands the weather was influenced for a time by a new cyclonic system which skirted our western coasts, but as this passed away

the anticyclone spread westwards over England and Ireland, the weather being dry, but with a good deal of fog, at first on the coasts, and afterwards in the inland districts also.

After the 4th the anti-cyclone drifted eastwards and southwards, and on the 6th and 7th a well-marked, though somewhat shallow, low-pressure system travelled south-eastwards across Scandinavia and the Baltic, its passage being attended by snow in many parts of northern Europe. At the close of the week a rather deep secondary system appeared off the north of Scotland and moved quickly south-eastwards across the North Sea, the wind in its rear increasing to a gale from the Westward or North-Westward on some of the more exposed parts of our northern coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 56.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	8.6	- 12.0	11	- 16	THURCASTON	14.3	- 5.5	19	- 7	BOURNEMOUTH	29.7	—	39	—
STRATHPEFFER SPA	6.0	- 12.3	8	- 17	MARGATE	19.5	- 5.0	25	- 7	SOUTHPORT	11.5	—	15	—
EDINBURGH	10.3	- 8.6	14	- 11	BROADSTAIRS	24.7	—	32	—	RHYL	29.3†	—	39†	—
MORPETH	7.9	—	10	—	EASTBOURNE	30.0	+ 3.0	39	+ 6	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	7.5	—	10	—	BRIGHTON	32.0	+ 6.1	43	+ 9	ABERDOVEY	23.9†	—	38†	—
YORK	2.5	- 13.2	3	- 24	WORTHING	32.7	—	42	—	TENBY	19.5	- 8.7	27	- 9
LOWESTOFT	18.0	—	24	—	BOGNOR	36.7†	—	47†	—	NEWQUAY	33.9	+ 11.4	51	+ 16
HOLLESLEY BAY	20.1	—	26	—	WATERGATE	26.3	—	34	—	TORQUAY	27.1	- 9.5	35	0
SHEFFIELD	13.6	—	24	—	WESTBOURNE	30.1†	+ 2.2	39†	+ 3	CAHIR (Drneske)	†	—	†	—
WORKSOP	12.5	- 7.8	16	- 10	VENTNOR HOSPITAL	26.1	- 2.6	34	- 3	GUERNSEY	40.5†	+ 10.7	53†	+ 14

† The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature.						Rainfall.			Bright Sunshine.		
		(In Degrees Fahrenheit.)						°					
		Highest observed.	Lowest observed.	Averages for the week.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.
Week ending January 25th 1902.	Rhyl	—	—	—	—	—	—	—	—	—	11.4	—	20
February 1st "	Broadstairs	—	—	—	—	—	—	—	—	—	25.0	—	42
" " "	Rhyl	—	—	—	—	—	—	—	—	—	19.1	—	32
" " "	Tenby	—	—	—	—	—	—	—	—	—	28.1	+ 12.0	46
" " 8th "	Killarney	—	32	—	33.9	—	—	1	0.04	- 1.25	—	—	—
" " "	Margate	—	—	—	—	—	—	—	—	—	7.4†	- 11.4	7.6

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, MARCH 15TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 62.)		Temperature of the Air.															
		Observed during the Week.						Accumulated.									
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.					
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.		
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	27	47.4	37.0	42.0	3 above	Day-deg. 15	Day-deg. + 5	Day-deg. 14	Day-deg. - 19	Day-deg. 82	Day-deg. + 2	Day-deg. 445	Day-deg. + 54		
	1. SCOTLAND, EAST	58	27	48.8	35.5	41.9	3 above	19	+ 5	26	- 9	90	- 15	497	+ 55		
	2. ENGLAND, N.E.	54	33	48.9	38.7	43.7	4 above	26	+10	9	- 21	143	+ 29	366	- 10		
	3. ENGLAND, EAST	58	33	50.6	38.8	44.5	4 above	31	+10	9	- 23	150	+ 19	382	- 35		
	4. MIDLAND COUNTIES	58	32	51.6	40.8	46.0	5 above	33	+11	3	- 29	178	+ 29	378	- 42		
5. ENGLAND, SOUTH	60	28	51.4	40.7	45.9	4 above	33	+11	4	- 21	173	+ 4	276	- 46			
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	32	48.7	39.0	43.7	3 above	25	+11	8	- 18	132	+ 12	327	+ 12		
	7. ENGLAND, N.W.	54	32	49.2	40.6	44.8	4 above	25	+10	4	- 21	145	+ 19	317	+ 8		
	8. ENGLAND, S.W.	56	35	51.6	42.9	47.1	5 above	36	+13	0	- 21	212	+ 14	243	- 1		
	9. IRELAND, NORTH	54	35	49.8	41.2	45.4	4 above	27	+ 7	2	- 21	154	- 13	240	- 30		
	10. IRELAND, SOUTH	57	30	52.5	42.6	47.4	4 above	38	+12	0	- 17	240	- 5	183	- 23		
	-CHANNEL ISLANDS-	57	36	53.3	44.5	48.7	4 above	47	+19	0	- 8	319	+ 40	97	- 4		
DISTRICTS. (See p. 62.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10	1 more	56	+ 4	11.5	- 0.7	20	0	25	- 0	118	- 11	18	- 1	
	1. SCOTLAND, EAST	4	3	2 less	40	- 2	9.9	- 2.6	17	- 6	22	- 7	130	- 33	19	- 5	
	2. ENGLAND, N.E.	3	3	1 less	33	- 7	3.1	- 1.5	12	- 11	15	- 14	127	- 36	17	- 6	
	3. ENGLAND, EAST	3	4	1 more	35	- 7	2.7	- 1.8	25	- 4	32	- 4	198	- 13	24	- 2	
	4. MIDLAND COUNTIES	3	6	2 more	31	- 8	3.8	- 1.6	13	- 10	16	- 13	133	- 19	21	- 2	
5. ENGLAND, SOUTH	2	6	2 more	29	- 11	3.9	- 2.0	26	- 3	32	- 4	196	- 4	26	0		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	9	0 (average)	49	+ 1	11.1	- 1.1	17	- 7	21	- 9	114	- 36	16	- 6	
	7. ENGLAND, N.W.	5	3	2 less	42	- 1	5.4	- 1.5	12	- 10	15	- 13	148	- 12	21	- 2	
	8. ENGLAND, S.W.	5	6	0 (average)	37	- 8	5.5	- 3.7	13	- 17	17	- 19	179	- 18	25	- 3	
	9. IRELAND, NORTH	6	4	2 less	51	+ 3	7.0	- 0.1	19	- 4	24	- 4	120	- 43	17	- 6	
	10. IRELAND, SOUTH	5	3	3 less	38	- 10	6.8	- 2.6	23	- 4	29	- 4	166*	- 22	23	- 4	
- CHANNEL ISLANDS-		4	4	1 less	40	- 8	4.5	- 2.9	17	- 16	21	- 19	200	- 42	26	- 5	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was somewhat rainy in all the more western and northern districts although the daily measurements were small, but over the greater part of England it was generally dry until Friday, when considerable rain fell over all the more southern counties.

Temperature was again above the mean, the excess ranging from 5° in England S.W. and the Midland Counties to 3° in Scotland. The highest of the maxima were registered on different days in various parts of the Kingdom; they ranged from 60° in England (at Southampton on Sunday) to 54° in several of the north-western and northern districts. The lowest of the minima were recorded, as a rule, either on the 13th or 14th, and ranged from 27° in Scotland N. and E. and 28° in England S. to 35° in England S.W. and Ireland N. and to 35° in the Channel Islands.

Rainfall exceeded the normal amount in Scotland N., the Midland Counties and England S. and E., and just equalled the average in England S.W. and Scotland W.; elsewhere the fall was again less than the mean.

Bright Sunshine was deficient in all districts excepting Scotland N. The percentage of the possible duration ranged from 32 in England S. and E. and 29 in Ireland S. to 17 in England S.W. and 15 in England N.E. and N.W.

Barometer and Wind.—At the commencement of the period pressure was highest to the south-westward of our Islands, but as the week progressed the highest readings were transferred to Germany and the Baltic and finally to the south of France. No very deep disturbances were shown, but one that had moved south-eastwards over the North Sea at the commencement of the week caused fresh or strong North-Westerly winds over the country generally, and another, small and well defined, which travelled east-north-eastwards over our southern and south-midland counties late on Friday, and grew deeper in its progress, produced strong winds from the South-Westward over our southern districts generally, and a gale over the Eastern part of the Channel and England.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
											Inches.	Inches.				
O. SCOTLAND, N	Sumburgh Head	47	31	44.0	35.6	39.7	+ 1.7	6	23	4	0.51	- 0.16	*	*	*	*
	Stornoway	50	35	48.6	37.6	42.9	+ 3.5	25	12	5	1.13	+ 0.33	15.2	- 7.2	19	- 9
	Wick	52	27	47.0	33.0	39.8	+ 0.9	14	34	3	0.09	- 0.37	*	*	*	*
	Laig	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron	49	33	46.7	36.9	41.7	+ 4.0	13	20	6	2.58	+ 1.02	*	*	*	*
	Fort Augustus	54	31	49.7	37.8	43.6	+ 4.4	29	12	5	0.61	- 0.12	18.8	+ 2.4	24	+ 3
1. SCOTLAND, E	Fort William	51	38	48.2	41.0	44.5	+ 4.7	22	3	6	1.10	- 0.31	11.8	- 8.5	15	- 11
	Nairn	53	31	49.6	35.0	42.1	+ 2.9	30	20	3	0.20	- 0.17	*	*	*	*
	Aberdeen	52	33	46.7	36.3	41.4	+ 1.8	13	23	4	0.32	- 0.20	16.2	- 10.0	21	- 12
	Braemar	51	27	45.6	33.5	38.9	+ 3.0	10	28	5	0.39	- 0.17	*	*	*	*
	Ochertyre	58	32	51.0	35.1	42.8	+ 3.3	35	19	5	0.47	- 0.19	*	*	*	*
	Leith	54	37	51.0	38.9	44.8	+ 3.7	33	9	4	0.07	- 0.25	*	*	*	*
2. ENGLAND N.E.	Marchmont	50	32	48.9	33.9	41.2	+ 2.7	19	32	2	0.11	- 0.43	17.5	- 5.2	22	- 6
	Alnwick Castle	53	35	49.5	37.7	43.4	+ 3.9	28	12	3	0.12	- 0.41	*	*	*	*
	Durham	52	33	46.4	36.3	41.2	+ 1.6	12	22	2	0.05	- 0.39	13.3	- 11.3	17	- 14
	Shields	53	38	49.3	39.6	44.3	+ 4.1	26	7	3	0.09	- 0.29	*	*	*	*
	Scarborough	54	37	50.1	38.4	44.1	+ 3.5	30	10	5	0.45	+ 0.03	12.4	—	15	—
	Spurn Head	51	38	47.0	39.1	42.9	+ 2.5	18	8	3	0.63	+ 0.36	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	53	36	51.0	41.3	46.0	+ 5.8	31	2	2	0.53	+ 0.23	*	*	*	*
	Hillington	57	37	52.3	38.9	45.4	+ 4.5	37	9	3	0.61	+ 0.23	23.5	- 1.9	29	- 2
	Yarmouth-	50	35	46.3	37.4	41.7	+ 1.8	12	18	3	0.12	- 0.27	*	*	*	*
	Geldeston	56	34	51.4	38.3	44.7	+ 3.7	34	10	3	0.31	- 0.04	25.1	- 3.0	31	- 4
	Cambridge	58	33	54.2	38.9	46.3	+ 5.1	43	9	2	0.32	+ 0.02	26.0	- 1.2	33	- 1
	Felixstowe	53	37	47.7	38.6	43.0	+ 2.1	21	10	2	0.50	—	32.3†	-†	40†	-†
4. MIDLAND COUNTIES	Rothamsted	55	35	51.4	40.4	45.7	+ 5.3	33	4	2	0.69	+ 0.31	18.3	- 7.5	23	- 9
	Bawtry (Hesley Hall)	54	32	50.7	38.9	44.6	+ 3.8	31	9	2	0.94	+ 0.59	*	*	*	*
	Loughborough	57	37	52.0	40.9	46.3	+ 5.1	35	3	3	0.68	+ 0.33	*	*	*	*
	Colly Weston (Stamford)	53	37	51.7	40.1	45.7	+ 4.9	34	5	3	0.45	—	*	*	*	*
	Cheadle	52	33	49.2	38.9	43.9	+ 4.3	26	9	3	0.84	+ 0.35	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	53	36	50.6	41.5	45.9	+ 5.4	29	1	2	0.76	+ 0.41	9.6	—	12	—
5. ENGLAND, S.	Churchstoke	56	39	52.7	41.4	46.9	+ 6.9	37	2	2	0.64	+ 0.19	12.8	- 12.8	16	- 16
	Hereford	58	37	52.4	42.3	47.2	+ 5.7	36	0	2	0.39	+ 0.03	*	*	*	*
	Cirencester	56	35	51.9	40.9	46.2	+ 6.0	34	3	3	0.55	+ 0.11	11.1	- 14.5	14	- 18
	Oxford	57	37	52.9	42.0	47.3	+ 5.8	37	0	4	0.38	+ 0.05	17.1	- 8.1	21	- 10
	London	58	35	53.9	40.0	46.7	+ 4.6	41	6	2	0.57	+ 0.24	18.9†	+ 0.9†	24†	+ 14
	Swarraton (Alresford)	57	28	52.8	39.7	46.1	+ 5.8	38	6	2	0.88	+ 0.41	*	*	*	*
6. SCOTLAND, W.	Dungeness	56	33	50.7	38.7	44.5	+ 3.4	31	9	1	0.40	+ 0.08	33.8	—	42	—
	Hastings (St. Leonards)	56	38	50.6	40.6	45.5	+ 3.9	30	4	2	0.44	0.00	30.9	+ 0.7	39	+ 2
	Southampton	60	33	54.0	42.3	48.0	+ 5.0	42	0	2	0.82	+ 0.36	18.3	- 9.7	23	- 12
	Portland Bill	50	41	48.1	43.1	45.5	+ 2.0	25	0	4	0.59	—	*	*	*	*
	Shaftesbury	54	37	49.5	40.3	44.8	+ 4.4	27	5	3	0.47	- 0.01	*	*	*	*
	Laudale (Loch Sunart)	49	36	48.2	39.4	43.7	+ 2.5	23	7	7	1.43	+ 0.03	*	*	*	*
7. ENGLAND, N.W	Glasgow	51	37	48.2	39.8	43.9	+ 3.9	23	6	6	0.42	- 0.15	17.3	- 1.2	22	- 1
	Cally	54	32	50.2	37.0	43.4	+ 2.9	31	14	4	1.35	+ 0.50	*	*	*	*
	Douglas (Isle of Man)	51	36	48.1	39.7	43.8	+ 2.4	22	6	4	0.19	- 0.45	15.7	- 12.9	20	- 16
	Newton Reigny	50	33	47.1	36.7	41.8	+ 3.0	14	21	5	0.31	—	11.5	—	14	—
	Stonyhurst	49	39	48.1	40.2	44.0	+ 3.9	22	5	4	0.53	- 0.24	13.2	- 9.8	17	- 11
	Blackpool	51	32	48.7	38.6	43.5	+ 2.6	25	10	5	0.41	- 0.08	12.8	- 10.2	16	- 12
8. ENGLAND, S.W.	Manchester (Prestwich)	54	37	49.5	40.2	44.7	+ 4.3	26	5	2	0.37	- 0.17	8.6	—	11	—
	Liverpool Obsy. (Bidston)	52	40	49.7	41.4	45.4	+ 3.8	26	2	5	0.34	- 0.04	9.1	—	11	—
	Chester	54	37	51.7	42.9	47.2	+ 5.2	36	0	5	0.14	—	*	*	*	*
	Llandudno	52	41	50.4	42.7	46.4	+ 3.5	31	0	5	0.14	- 0.31	12.3	- 11.7	15	- 15
	Holyhead	50	41	48.7	42.4	45.5	+ 2.9	25	0	5	0.44	- 0.07	*	*	*	*
	Llandoverly	56	41	52.3	43.9	48.0	+ 6.7	42	0	7	0.87	+ 0.07	*	*	*	*
9. IRELAND, N.	Pembroke	51	42	48.4	43.7	46.0	+ 3.3	22	0	4	0.65	+ 0.12	18.9	- 10.1	24	- 12
	Clifton	55	39	52.5	43.2	47.7	+ 5.3	40	0	3	0.58	+ 0.06	*	*	*	*
	Bath	56	36	53.0	41.4	47.0	+ 5.2	38	2	2	0.51	—	12.6	—	16	—
	Arlington (N. Devon)	53	35	50.4	40.0	45.1	+ 4.3	30	6	4	0.99	+ 0.19	*	*	*	*
	Cullompton	56	38	53.4	43.0	48.1	+ 5.0	43	0	5	0.31	- 0.23	10.0	- 10.7	15	- 18
	Falmouth	53	38	51.4	43.7	47.4	+ 3.1	38	0	6	0.59	- 0.17	13.1	- 17.3	16	- 21
10. IRELAND, S.	Plymouth	55	40	51.1	44.6	47.8	+ 4.1	41	0	5	0.60	+ 0.03	11.1	- 18.3	14	- 22
	Malin Head	49	39	48.1	41.7	44.8	+ 2.6	21	1	7	0.32	—	*	*	*	*
	Edenfel (Omagh)	51	35	49.3	40.3	44.7	+ 4.6	26	5	5	0.23	- 0.33	*	*	*	*
	Blacksod Point	52	43	50.3	44.4	47.3	+ 3.8	37	0	7	0.77	—	*	*	*	*
	Markree Castle	53	37	50.3	41.0	45.5	+ 3.8	29	3	6	0.44	- 0.20	18.5	- 4.2	23	- 5
	Armagh	54	38	51.2	40.2	45.5	+ 4.4	32	5	5	0.21	- 0.24	18.9	- 3.5	24	- 4
CHANNEL ISLANDS	Donaghadee	51	36	49.4	39.7	44.4	+ 2.3	26	6	5	0.23	- 0.21	*	*	*	*
	Dublin	57	37	53.3	42.8	47.9	+ 4.6	41	0	5	0.18	- 0.27	24.5	- 2.1	31	- 2
	Parsonstown	54	33	52.6	41.3	46.8	+ 4.9	37	2	5	0.22	- 0.28	22.9	- 1.4	29	- 1
	Kilkenny	55	39	53.0	40.6	46.6	+ 3.7	38	4	5	0.24	- 0.23	*	*	*	*
	Roche's Point	54	35	51.1	42.3	46.6	+ 2.2	32	0	4	0.21	- 0.56	*	*	*	*
	Valencia	53	43	51.9	44.9	48.3	+ 3.0	44	0	7	0.54	- 0.38	21.9	- 6.6	27	- 8
	Killarney	57	38	54.8	43.6	49.0	+ 4.7	49	0	5	0.44	- 0.43	*	*	*	*
	Foynes	53	38	50.8	42.9	46.7	+ 3.2	33	0	4	0.42	- 0.17	*	*	*	*
	Scilly (St. Mary's)	57	46	54.1	46.6	50.2	+ 4.3	57	0	5	0.26	- 0.27	15.6	—	20	—
	Jersey	54	36	52.4	42.3	47.2	+ 2.8	36	0	3	0.56	+ 0.04	17.9	- 15.5	22	- 19

Stations marked $\mathcal{H}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder.

At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Records are in use.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

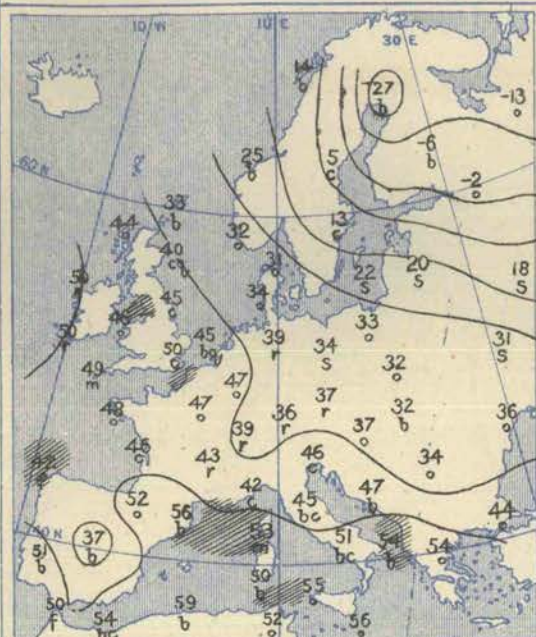
For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 9th March.

Temperature and Weather.

8 a.m.

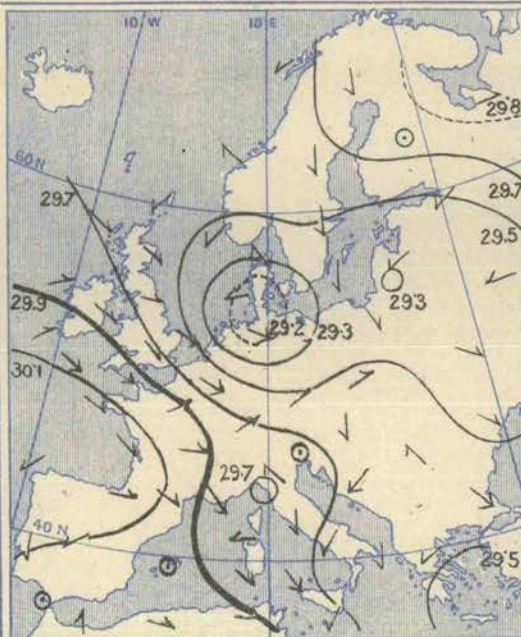


Weather in morning fine and bright over Italy, the north of Scandinavia, and at some of our own stations; cloudy or dull elsewhere, with rain in some of our northern and western districts. Rain also at Patras, and snow over the Baltic, and Gulfs of Bothnia and Finland. Rain falling later in day in most parts of our Islands and France, and rain or snow in many parts of northern and central Europe.

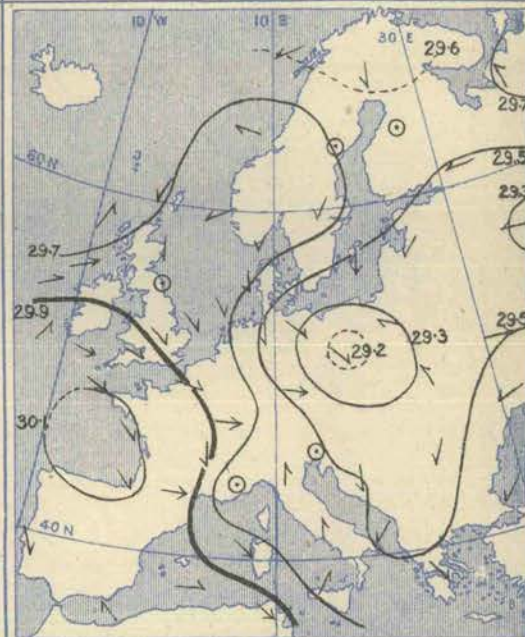
Temperature at 8 a.m. highest, 61° at Palma, 59° at Algiers, and 56° at Malta and Barcelona; 50° in London, and in the south and west of Ireland. Lowest—27° at Haparanda—13° at Archangel, and much below 32° over Scandinavia and northern and central Russia generally. Below 40° over central Europe, and only 42° at Nice. Rising during day to 56° in London, 57° at Oxford, 59° at Nice and Rome, 64° at Perpignan and Barcelona, and to 70° at Algiers.

Barometer and Wind.

8 a.m.



6 p.m.



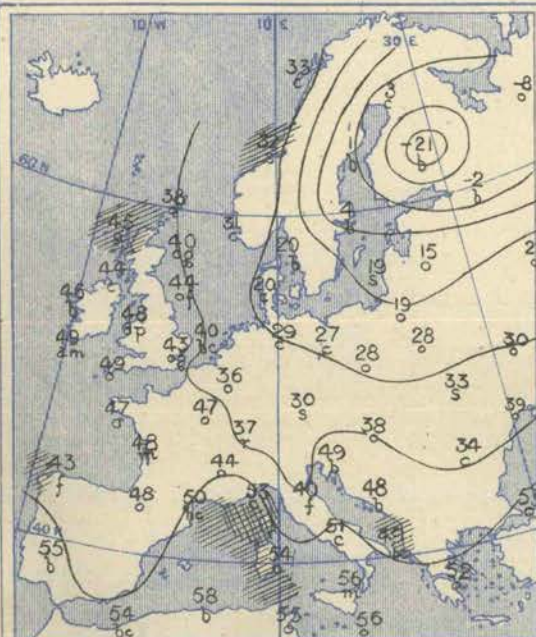
Wind in morning moderate to strong from West or North-West over the United Kingdom, and from between West and South over Germany and central Europe, but drawing into South-East and East over Denmark and Norway. A separate circulation of cyclonic winds prevailing round the Baltic Provinces. Wind in Italy and southern Europe generally from some Northerly point, and of no great force. Wind increasing to gale from the Westward at some German stations later, and increasing considerably from North-West at some Mediterranean stations.

Barometer at 8 a.m. highest, 30.1 ins. and upwards over the Bay of Biscay and north of Spain. Lowest, 29.2 ins. and less in a well-marked minimum over Holstein. As low as 29.3 ins. in another centre between Memel and Riga; 29.5 ins. over the southern part of Greece, and 29.7 ins. in a small cyclonic system in the neighbourhood of Elba. Chief minimum moving quickly south-eastwards to central Europe during day, and that near Elba apparently travelling westwards and growing deeper; very little change elsewhere.

Monday, 10th March.

Temperature and Weather.

8 a.m.

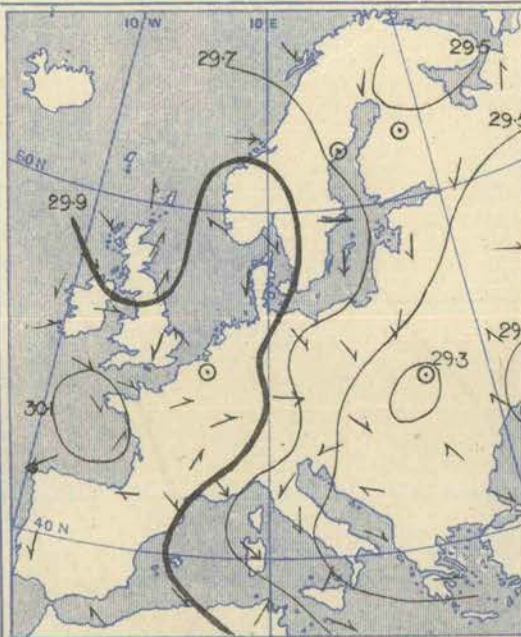


Weather in morning fine and bright in Algeria, and at many Italian and Scandinavian stations; cloudy or dull in other regions, with mist or fog in several British localities; rain at some western stations, and at Le Mans and Belfort, and snow at Christiansund and Wisby, as well as in different parts of central Europe. Slight rain falling at many of our own northern and western stations later, and a considerable quantity at Trieste, and a little snow in the northern and central countries.

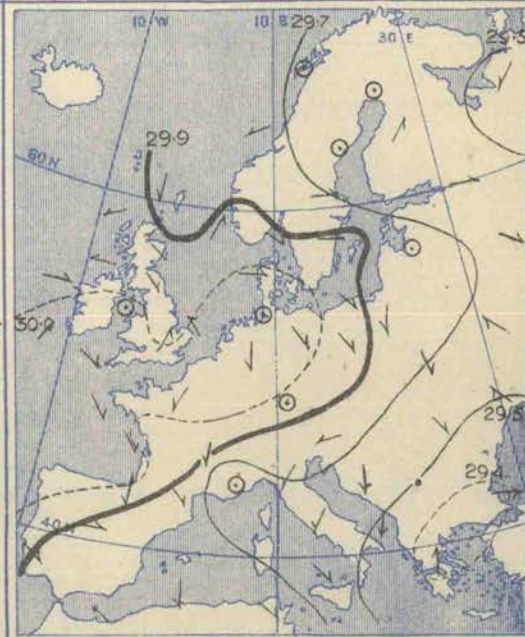
Temperature at 8 a.m. highest, 58° at Algiers, 57° at Barcelona, and above 50° on the coasts of southern Europe generally. Lowest—21° at Kuopio, and below zero at the other Finnish stations and at Archangel. Below 32° over Sweden, Denmark, and central Europe generally. Rising during day to 57° at Loughborough, to 60° and upwards in most parts of Italy, 69° at Perpignan, and 76° at Stax. Not exceeding 32° all day at Cracow and Prague, and 30° at Swinemünde and Breslau, and only rising to 43° on the coast of Norfolk.

Barometer and Wind.

8 a.m.



6 p.m.



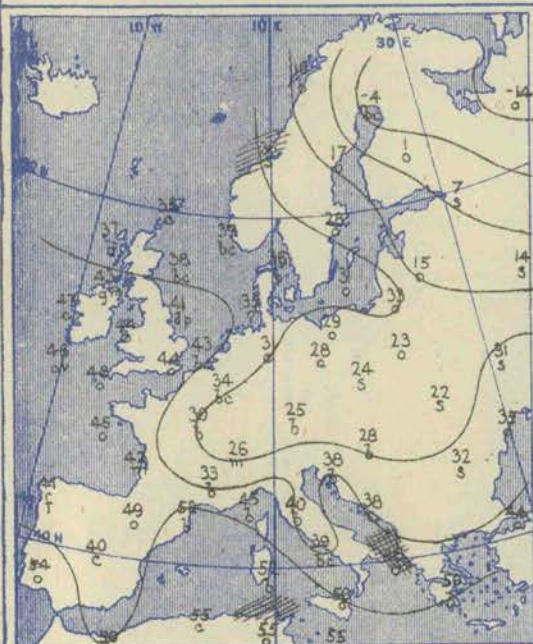
Wind in morning varying greatly. Mainly Northerly over Sweden, the western parts of Russia, and central Europe; North-Westerly in Italy, Westerly at Athens, and South-Easterly in the south of Russia. Light from North-West or West over Ireland and the west of England, and chiefly Southerly over the east of Great Britain. Strong from North-West at Cape Sicily and Cagliari. Wind becoming even more variable in direction by evening, but blowing strongly or with the force of a gale from North in the Adriatic, and freshly from North-East over the western coast of Italy.

Barometer at 8 a.m. highest, 30.1 ins. and upwards over the Bay of Biscay, and 29.9 ins. and above in a large irregularly-shaped area embracing western Algeria, the Spanish Peninsula, and stretching northwards across France, Ireland, and England, and the North Sea to Norway. Lowest, 29.3 ins. in a depression over Galicia, below 29.4 ins. in another system near Moscow, and below 29.8 ins. in a third over the north of Scotland. Not much change as a whole during day, but Galician disturbance apparently moving southwards to the Grecian Archipelago.

Tuesday, 11th March.

Temperature and Weather.

8 a.m.

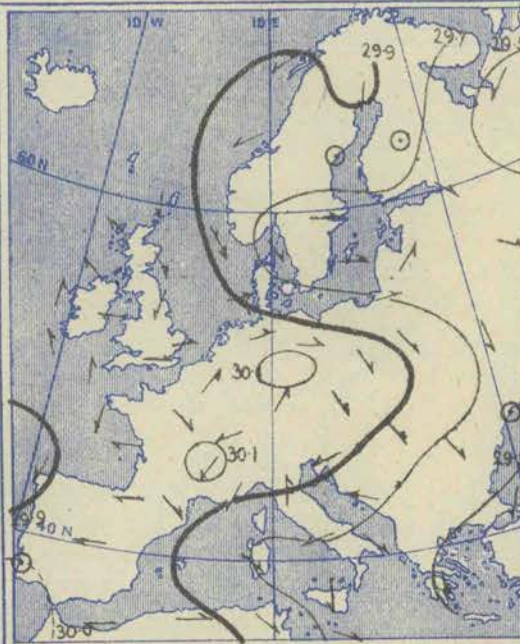


Weather in morning cloudy or dull generally, but fine and bright in Scotland, the north of Scandinavia, and many parts of southern Europe. Rain falling at Parsonstown, and snow over the Gulf of Finland and central and southern Russia, and also at Breslau and Lemberg. Foggy or misty in several parts of England. Slight rain later over the north and west of the United Kingdom, and small amounts of snow in some central and northern countries.

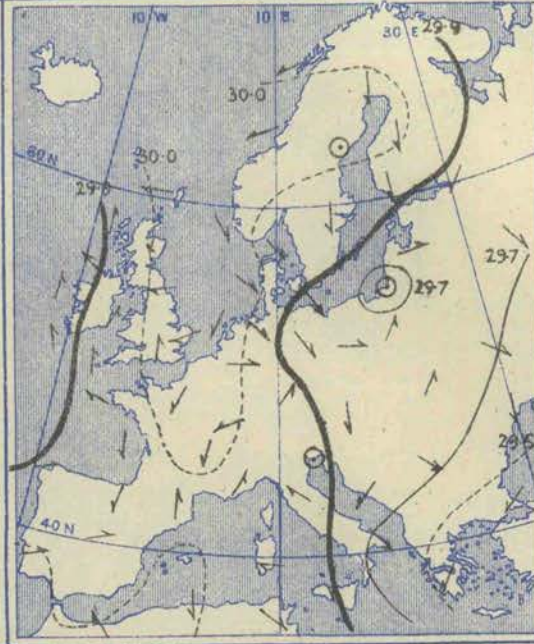
Temperatures risen quickly in Sweden and Finland, fallen in most other parts of Europe. Readings at 8 a.m. highest, 58° at La Calle, 57° at Barcelona, and 55° at Malta, Tunis, and Algiers. Lowest -14° at Archangel, -4° at Haparanda, +7° at St. Petersburg, 14° at Moscow, and below 32° over northern and central Europe generally. Lowest in our Islands, 31° at Wick. Rising during day to 50° or above in many parts of the British Isles, to 60° or above at some southern French stations and in Spain, and to 68° at Nemours and Oran.

Barometer and Wind.

8 a.m.



6 p.m.



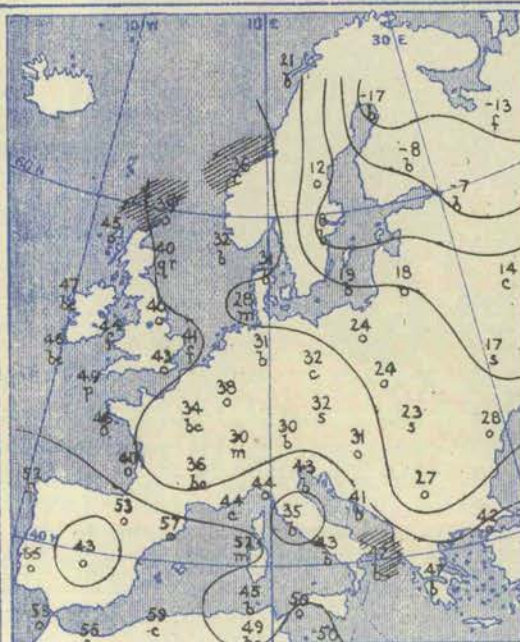
Wind in morning light from South or South-East in the western districts of the United Kingdom, and from the Northward or North-Westward on our east coasts. Moderate from between North-East and North-West over northern Europe, and from the Westward in the central regions. Easterly or North-Easterly breezes prevailing over Italy and the north of France, and North-Westerly winds at Tunis and Malta. Some extension of the Southerly wind taking place over our Islands during day, but direction of wind as a whole becoming rather more variable.

Barometer risen generally, but fallen over the north of Russia, in Ireland, and over the Bay of Biscay. Readings at 8 a.m. highest, 30.0 ins. in a large area over France and central Europe, and extending northwards in a long band over and to the northward of Great Britain. Lowest, 29.5 ins. and less in a shallow depression over Greece and Asia Minor, and in a similar system over the north of Russia. Barometer rising in most region during day, but falling on our own western coasts, and a disturbance appearing over north east Germany.

Wednesday, 12th March.

Temperature and Weather.

8 a.m.



Weather in morning fine in some parts of northern Europe, and also in Italy and Algeria; cloudy or dull in nearly all other places. Foggy or misty in the extreme north of Russia, and on the north coast of Spain, and at some of our own stations; rainy at Aberdeen, and snow falling at some central European stations and at Nicolaieff. Slight rain falling later in the west and north of our Islands, and a considerable quantity in western Algeria, and snow continuing in some central regions.

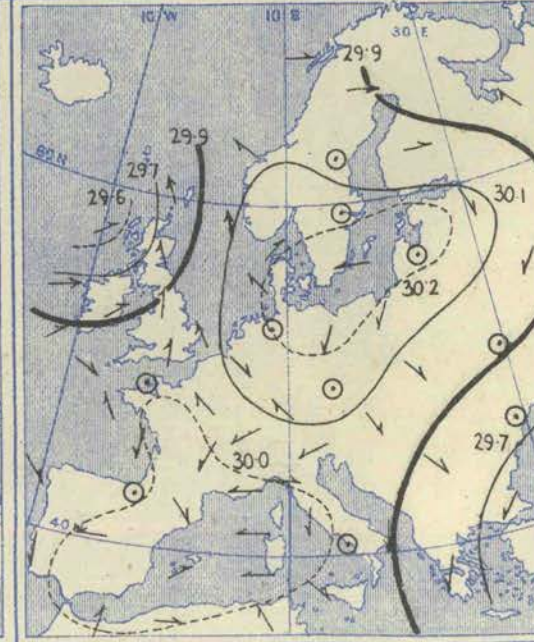
Temperatures fallen over Sweden, Finland, and the south of Russia, changed irregularly elsewhere. Readings at 8 a.m. highest, 60° at Palma, 59° at Algiers, 57° at Barcelona, and 55° at Lisbon and San Fernando. Lowest -17° at Haparanda, and several degrees below zero over Finland and at Archangel; much below 32° over the greater portion of Russia and Scandinavia. No higher than 35° at Rome, and 36° at Florence. Rising subsequently to above 50° in many parts of our Islands, to 60° or above in the west and south of France, and to 73° at Algiers.

Barometer and Wind.

8 a.m.



6 p.m.



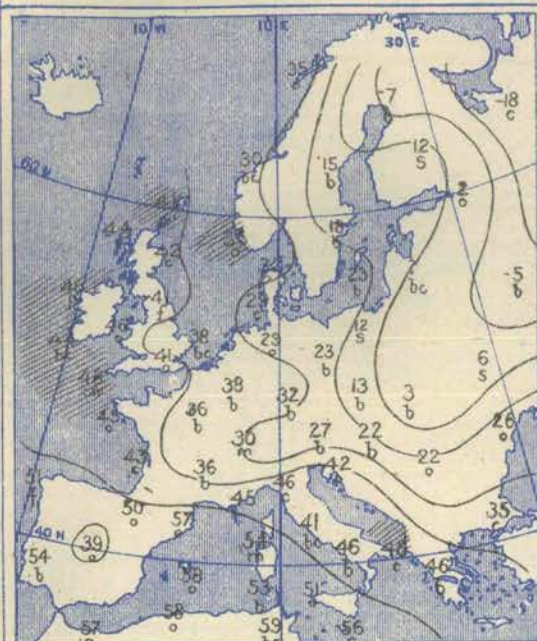
Wind at 8 a.m. light to fresh from the South-Eastward over the United Kingdom, and mainly from the Northward or North-Eastward over Russia and the eastern portions of Germany and Austria. Variable over Scandinavia and also over the southern countries, but fresh from North West at Brindisi and Athens. Wind veering to South-West or West later over these Islands, and to South on the west coast of Norway, and increasing in force in the north of Ireland. Not much change elsewhere, but a feeble cyclonic circulation setting in over the western part of the Mediterranean and its neighbourhood.

Barometer fallen over the west and north of our Islands, risen in most other regions. Readings at 8 a.m. highest, 30.1 ins. to 30.2 ins. in a long irregularly-shaped anticyclonic area extending northwards from the east of France and embracing the Netherlands, Denmark, and their vicinity, together with the greater part of Scandinavia, and the western portion of Finland. Lowest, 29.7 ins. off our north-west coasts, and in another area over south-eastern Europe. Very little change in the general distribution later, but barometer falling steadily in Scotland.

Thursday, 13th March.

Temperature and Weather.

8 a.m.

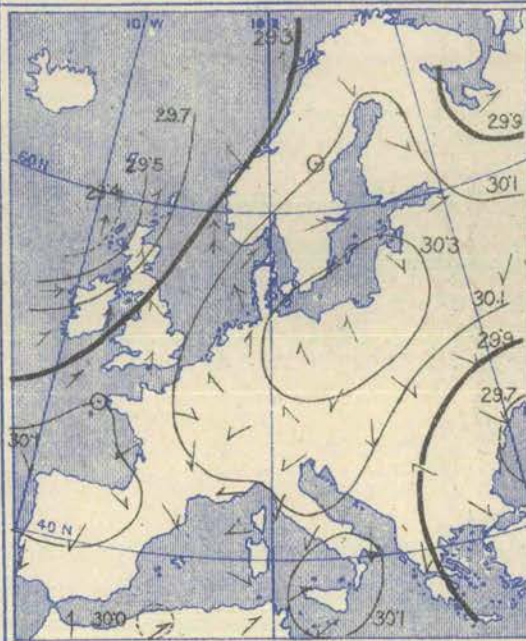


Weather in morning fine and bright in various parts of southern and central Europe, as well as at some stations in Scandinavia; cloudy or dull elsewhere, with fog or mist in some parts of England and at Corunna, and showers in Ireland. Snow falling at Kuopio, Neufahrwasser, and Vienna, and also in Little Russia. Sky clearing later in many parts of the United Kingdom, but some rain falling at some western and northern stations, and in the west of France, and as much as 0.9 in. at Nemours.

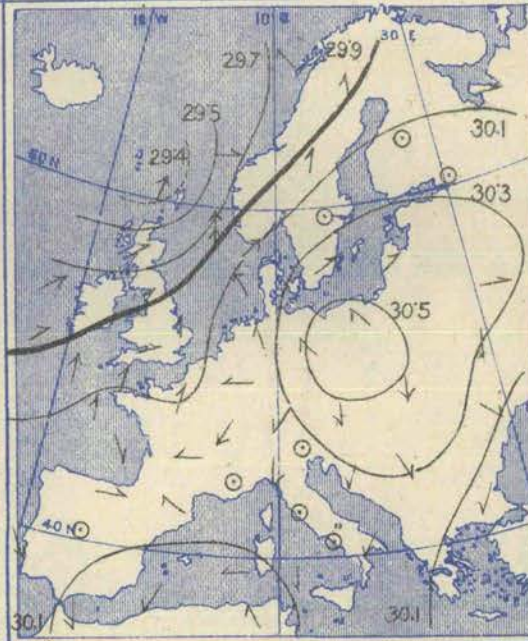
Temperature risen in most districts in northern Europe, and fallen over central and southern Russia, and the greater part of Germany and Austria-Hungary. Morning readings highest, 59° at La Calle, 58° at Palma and Algiers, and 50° or above on the southern shores of the Mediterranean, and at the Spanish coast stations generally. Lowest—18° at Archangel, —7° at Uleaborg, —5° at Moscow, +3° at Lemberg, 6° at Kiev, and 8° at Memel. Much below 32° over the whole of central Europe, and only 35° at Constantinople. Rising during day to 58° in London, 59° at Paris, 66° at Cagliari, 68° at Algiers, and to 70° at Tunis.

Barometer and Wind.

8 a.m.



6 p.m.



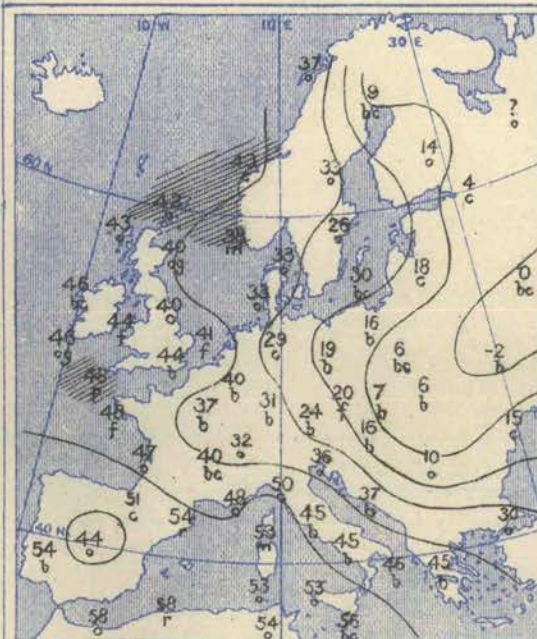
Wind in morning Southerly to South Westerly over western Europe as a whole, but variable or North-Easterly in France and Spain. Light or moderate generally, but strong to a gale in the north of Ireland, and at Skudesnaes. Light anticyclonic airs prevailing over central Europe, and light cyclonic winds in the south-east. Light variable airs over Italy and the Mediterranean. Increasing to a gale from South-South-West in the Hebrides during day, and gale at Skudesnaes increasing in strength; no other change of importance.

Barometer at 8 a.m. highest, 30.3 ins. in an anticyclone over Germany and the Baltic, and above 30.1 ins. in two other areas lying respectively over the south of Italy and Sicily, and the northern part of the Spanish Peninsula. Lowest, 29.4 ins. and less in a depression off our north-west coasts, and below 29.7 ins. in the neighbourhood of the Crimea. Anticyclone increasing in height and moving southwards during day, and disturbance in north-west moving north-eastwards; that near the Crimea disappearing.

Friday, 14th March.

Temperature and Weather.

8 a.m.

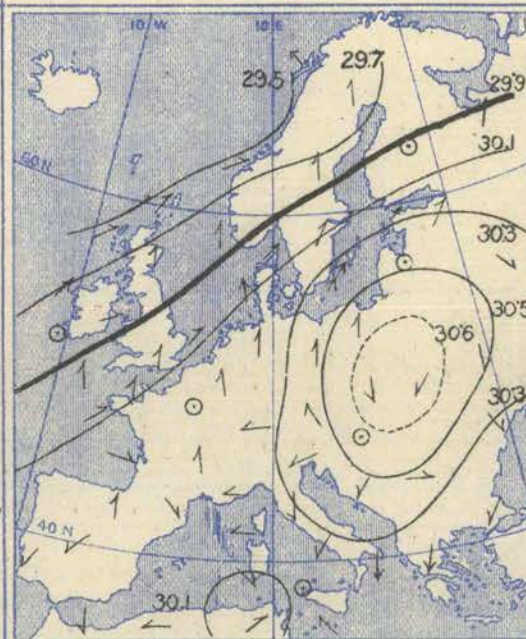


Weather in morning fine and bright over our south-eastern coasts, many parts of France, the Netherlands, central Europe, and Italy; cloudy or dull elsewhere, with rain on the south coast of England and at Barcelona, and snow at Nicolaieff. Considerable falls of rain later over our Islands, the north and west of France, and the Netherlands, and some rain or snow in different parts of northern Europe.

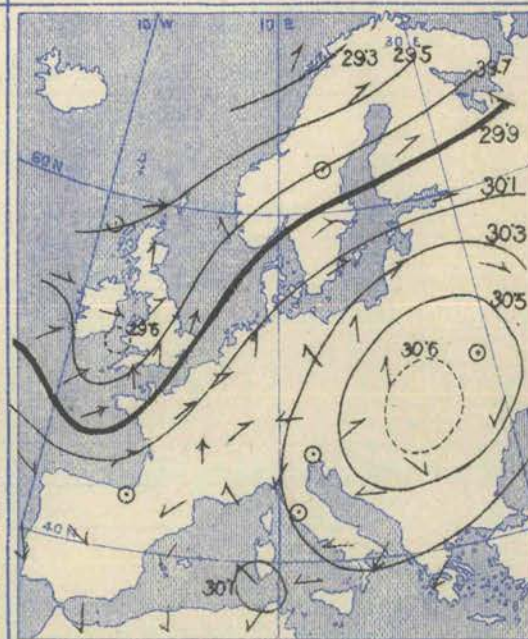
Temperature risen over Scandinavia and Finland, and fallen over central and south eastern Europe. Readings at 8 a.m. highest, 58° at Algiers and Oran, 56° at Malta, and above 50° over the western parts of the Mediterranean generally. Lowest—2° at Kiev, zero at Moscow, and much below 32° in the north of Sweden, over Russia, and central and south-eastern Europe generally; only 30° at Constantinople. Lowest in our Islands, 36° at Parsonstown and Penrith. Rising subsequently to 57° in London, 61° at Paris, 63° at Perpignan and Marseilles, and to 70° at Tunis and Sfax. Remaining below the freezing point over Russia, and many parts of Austria-Hungary and Germany.

Barometer and Wind.

8 a.m.



6 p.m.



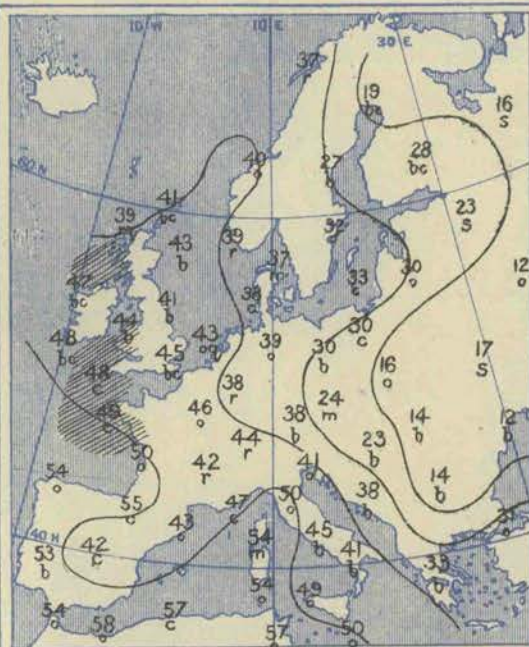
Wind in morning South-Westerly or Southerly over all the north-western and northern countries, but South-Easterly at Bodø. Strong over the north of Ireland, and in some Scandinavian regions, but light or moderate as a whole. Light and anticyclonic over central and south-eastern Europe, and mainly Easterly over Italy and the western portion of the Mediterranean. No general change later, but wind veering to North-West on our own south-west coasts by evening, and a South-Westerly gale experienced on our south-eastern coasts at night.

Barometer fallen in Scandinavia and Denmark, risen decidedly over southern and central Europe. Readings at 8 a.m. highest, 30.6 ins. and above over Hungary and Poland. Lowest, 29.5 ins. and less in a depression off our northern coasts, and off the north-west coast of Norway; 30.2 ins. and less over the Mediterranean and the Black Sea. Small, but rather deep disturbance appearing off our south west coasts during day, and travelling quickly east-north-eastwards. Barometer falling over the northern countries, and central anticyclone moving more to the southward.

Saturday, 15th March.

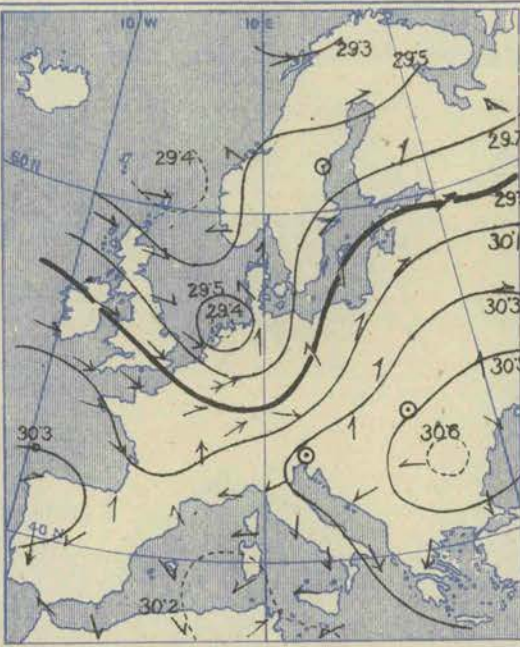
Temperature and Weather.

8 a.m.

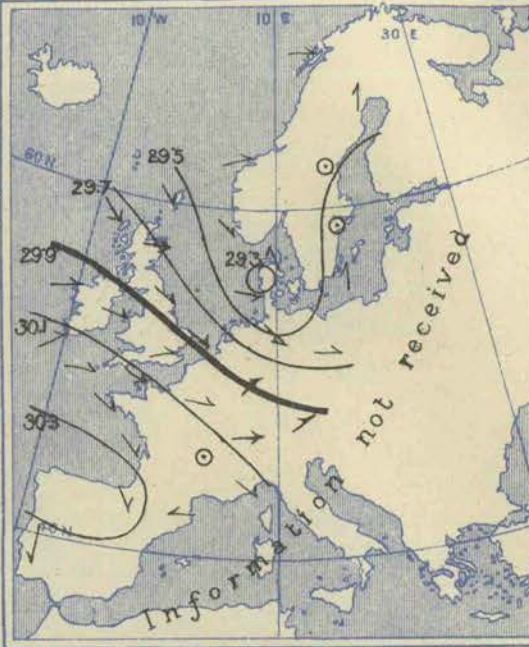


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the greater part of the United Kingdom, over Italy, and in many parts of central and south-eastern Europe; cloudy or dull elsewhere, and rainy on our extreme north-west coasts, over some of the central departments of France, as well as in the Netherlands and on the south and north coasts of Norway. Snow falling at Archangel and St. Petersburg. No later information received from the greater part of the Continent, but rain falling in most British districts during day, and also in Denmark and Germany.

Temperature risen quickly in most parts of Russia, and all the more central regions of Europe, fallen quickly in Greece. Readings at 8 a.m. highest, 58° at Oran and Palma, 57° at Algiers and Stax, and between 52° and 55° on the coasts of the Spanish Peninsula. Lowest, zero at Moscow and Kiev, 12° at Odessa, 14° at Hermandstadt and Lemberg, 16° at Warsaw and Archangel; as low as 31° at Constantinople, and 33° at Patras. Lowest in our Islands, 39° at Penrith. Rising during day to 50°, or a few degrees above, in most parts of the United Kingdom, and in some German localities, to 57° at Nice, 58° at Paris, and to 68° at Perpignan.

Wind in morning fresh or strong from the North-Westward in England and Ireland, strong to a gale from the South-Westward over the Netherlands and western Germany, and moderate from the South-Eastward in Denmark. A separate cyclonic circulation of light winds shown around the Shetlands, and a light anticyclonic movement over south-eastern Europe. Wind veering to West or North-West over the Netherlands, Germany, and the south of Denmark by evening, and northern cyclonic circulation disappearing.

Barometer at 8 a.m. highest, 30.4 ins. to 30.6 ins. in an anticyclone embracing almost the whole of south-eastern Europe, and above 30.3 ins. in another high pressure area extending from the Atlantic over the northern part of Spain. Lowest (1) 29.4 ins. and less in a depression of considerable energy having its centre near the Helder, and (2) in two other systems lying respectively to the northward of Scotland, and over the north of Scandinavia. Barometer rising decidedly over our Islands and France later, and depression near Helder moving north-eastwards to the north of Denmark. Northern disturbances both dispersing.

GENERAL NOTES.

At the commencement of the week pressure was highest over the Bay of Biscay and the north of Spain, while a cyclonic disturbance of considerable importance was travelling south-eastwards from the North Sea to central and south-eastern Europe. As the week wore on the anticyclonic system moved slowly north-eastwards until it became established over the Baltic and its neighbourhood, after which it travelled south-eastwards to central and south-eastern Europe, and at the same time increased considerably in intensity. The cyclonic systems which appeared during this time in the north-west and north over the Mediterranean were mostly small and shallow, but during Friday a depression of increasing depth and energy moved quickly from our own south-western coasts to the North Sea, and to Scandinavia on the

following day. This system caused strong winds or gales from the south-westward on our southern and south-eastern coasts, but the winds as a whole were light and moderate—chiefly from S.W. and S. in the northern and north-western countries, and from N.E. or E. in the southern regions. The weather was rather rainy in our own northern and north-western districts and the depression of Friday brought heavy rain to the southern counties of England and the western and northern departments of France. Rain or snow also fell at times over the northern and central countries, but the weather as a whole was rather dry. Temperature was very low at times over northern and central Europe, and towards the end of the week sharp frost was experienced even at Constantinople.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 62.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNES	81.9	+ 9.0	40	+ 11	THURCASTON	12.7	- 9.3	16	- 11	BOURNEMOUTH	13.3	-	23	-
STRATHPEFFER SPA	21.9	+ 2.5	28	+ 3	MARGATE	28.0	+ 1.1	35	+ 2	SOUTHPORT	10.7	-	13	-
EDINBURGH	-	-	-	-	BROADSTAIRS	26.2	-	33	-	RHYL	-	-	-	-
MORPETH	11.8	-	15	-	EASTBOURNE	30.1	+ 0.3	38	+ 1	COLWYN BAY	-	-	-	-
NEWCASTLE-ON-TYNE	9.0	-	11	-	BRIGHTON	24.7	- 4.8	31	- 6	ABERDOVEY	17.9†	-	22†	-
YORK	12.0	- 10.7	15	- 13	WORTHING	27.3	-	34	-	TENBY	-	-	-	-
LOWESTOFT	24.6	-	31	-	BOGNOR	31.9†	-	40†	-	NEWQUAY	12.2	- 17.8	15	- 22
HOLLESLEY BAY	27.6	-	35	-	WATERGATE	21.9	-	27	-	TORQUAY	11.3	- 19.3	14	- 24
DUNMOW	23.8	-	30	-	WESTBOURNE	26.0†	- 4.7	33†	- 5	CAHIR (Duneske)	22.9†	-	29†	-
SHEFFIELD	18.1	-	16	-	VENTNOR HOSPITAL	22.3	- 9.5	28	- 11	GUERNSEY	16.3†	- 15.7	21†	- 20
WORKSOP	13.8	- 8.5	17	- 11										

† The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)									Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
Week ending February 8th 1902.	Torquay	-	-	-	-	-	-	-	-	-	-	-	13.6	- 2.0	21	- 4	
February 15th "	Rhyl	-	-	-	-	-	-	-	-	-	-	-	48.5	- 1.3	65	-	
" 22nd "	Margate	-	-	-	-	-	-	-	-	-	-	-	22.6	+ 3.1	32	+ 5	
" " "	Rhyl	-	-	-	-	-	-	-	-	-	-	-	20.4	-	29	-	
" " "	Rhyl	-	-	-	-	-	-	-	-	-	-	-	18.7	-	26	-	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, MARCH 22ND, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 68.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	32	46.4	36.4	41.3	2 above	Day-deg. 12	Day-deg. + 1	Day-deg. 21	Day-deg. - 10	Day-deg. 94	Day-deg. + 3	Day-deg. 466	Day-deg. + 44
	1. SCOTLAND, EAST	62	28	49.4	36.1	42.6	3 above	29	+ 12	17	- 16	119	- 3	514	+ 39
	2. ENGLAND, N.E.	62	31	51.4	37.8	44.4	4 above	34	+ 15	12	- 17	177	+ 44	378	- 27
	3. ENGLAND, EAST	61	31	52.0	37.3	44.4	3 above	3	+ 12	13	- 17	187	+ 31	393*	- 54
	4. MIDLAND COUNTIES	60	31	52.3	38.8	45.4	4 above	37	+ 11	9	- 21	215	+ 40	387	- 63
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	62	33	51.3	41.2	46.1	3 above	32	+ 6	2	- 21	205	+ 10	278	- 67
	6. SCOTLAND, WEST	56	28	49.1	38.2	43.5	2 above	26	+ 10	11	- 13	158	+ 22	338	- 1
	7. ENGLAND, N.W.	61	30	49.3	39.7	44.3	3 above	26	+ 8	6	- 18	171	+ 27	323	- 10
	8. ENGLAND, S.W.	58	33	50.3	41.4	45.7	3 above	28	+ 3	2	- 18	240	+ 17	245	- 19
	9. IRELAND, NORTH	61	30	49.1	38.8	43.8	2 above	26	+ 4	9	- 12	180	- 9	249	- 42
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	60	30	51.1	40.0	45.4	1 above	32	+ 4	6	- 9	272	- 1	189	- 32
	-CHANNEL ISLANDS	55	40	51.8	45.3	48.5	3 above	46	+ 16	0	- 8	365	+ 56	97	- 12

DISTRICTS. (See p. 68.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	24	10ths of in. 15 more	63	+ 7	Ins. 13.9	+ 0.9	16	- 6	19	- 8	134	- 17	18	- 2	
	1. SCOTLAND, EAST	5	6	1 more	45	- 1	4.5	- 2.4	31	+ 6	37	+ 7	160*	- 23	21	- 4	
	2. ENGLAND, N.E.	3	2	2 less	36	- 7	3.3	- 1.7	42	+ 13	50	+ 16	169	- 22	21	- 2	
	3. ENGLAND, EAST	3	2	2 less	38	- 7	2.9	- 2.0	29	0	35	0	227	- 13	25	- 2	
	4. MIDLAND COUNTIES	3	2	2 less	34	- 8	4.0	- 1.8	32	+ 6	39	+ 8	165	- 13	23	- 1	
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	3	2	2 less	32	- 11	4.1	- 2.2	26	- 6	31	- 7	222	- 10	26	- 1	
	6. SCOTLAND, WEST	6	12	4 more	55	+ 3	12.3	- 0.7	27	+ 1	33	+ 2	141	- 35	18	- 5	
	7. ENGLAND, N.W.	5	5	0 (average)	47	+ 1	5.9	- 1.5	37	+ 9	44	+ 10	186*	- 3	23	0	
	8. ENGLAND, S.W.	5	6	0 (average)	42	- 7	6.2	- 3.6	28	- 4	33	- 5	207	- 22	26	- 3	
	9. IRELAND, NORTH	6	9	4 more	57	+ 4	7.9	+ 0.3	19	- 6	23	- 6	139	- 48	18	- 6	
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	5	7	1 more	43	- 9	7.5	- 2.5	21	- 8	25	- 9	187	- 30	24	- 3	
	- CHANNEL ISLANDS	5	4	1 less	45	- 7	4.9	- 3.1	31	- 6	37	- 7	231	- 47	27	- 5	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was very rainy over Ireland and Scotland and rain also fell rather frequently in the western parts of England. Over our northern and eastern districts, however, the rain was mostly confined to the latter days of the week, the earlier part being generally fine and dry. Thunder and lightning occurred in various parts of central and south-eastern England on Friday afternoon.

Temperature was again above the mean, the excess ranging from 4° in the Midland Counties and England N.E. to 1° in Ireland S. The highest of the maxima were, with few exceptions, registered on the 17th. They were as high as 62° in Scotland E. and England N.E. and S., and 61° in England E. and N.W. and Ireland N., while elsewhere they ranged from 60° in the Midland Counties to 55° in the Channel Islands. The lowest of the minima were recorded either on the 21st or 22nd, and varied from 28° in Scotland E. and W. to 33° in England S. and S.W., and to 40° in the Channel Islands.

Rainfall was less than the mean over all the eastern, central, and south-eastern parts of England, as well as in the Channel Islands, and only just equal to it in England N.W. and S.W. Elsewhere the fall exceeded the normal amount, the excess in Scotland N. being very large.

Bright Sunshine varied greatly in different districts, but exceeded the mean over central and

northern England and also over the greater part of Scotland. The percentage of the possible duration ranged from 50 in England N.E., 41 in England N.W. and 37 in Scotland E. and the Channel Islands to between 25 and 23 in Ireland, and to 19 in Scotland N.

Barometer and Wind. At the commencement of the week a disturbance which had passed east-north-eastwards over our more southern districts had reached Denmark, and the wind had shifted to N.W. in nearly all parts of our Islands. Other low pressure systems, however, soon appeared off our north-western and northern coasts, and as the barometer was highest over the Bay of Biscay the wind returned to S. or S.W. again. On Wednesday some secondary systems were observed in the southern part of our area, and caused the wind to shift to N.W. on our south-west coasts. During the remainder of the week the weather was influenced mainly by a large and deep depression whose centre arrived near the Shetlands by Thursday morning, and after remaining stationary for a time, while its secondary systems passed over the more southern parts of the Kingdom, moved slightly southwards and eastwards, decreasing gradually in energy. This disturbance produced moderate to strong gales from between S.W. and N.W. on most parts of our coasts.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
										Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
O. SCOTLAND, N	Sumburgh Head	48	33	44.6	36.3	40.3	+ 1.8	7	21	7	1.55	+ 0.92	*	*	*	*
	Stornoway	53	33	46.9	36.7	41.7	+ 2.0	14	21	7	1.93	+ 1.17	14.8	- 9.9	18	- 11
	Wick	56	32	48.6	36.1	42.2	+ 2.6	26	17	7	0.98	+ 0.53	*	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Glencarron	49	32	44.3	35.4	39.7	+ 1.3	6	24	7	4.76	+ 3.27	*	*	*	*
	Fort Augustus	52	32	47.1	35.6	41.2	+ 1.4	14	25	7	2.05	+ 1.37	14.3	- 4.0	17	- 5
1. SCOTLAND, E	Fort William	50	34	46.7	38.1	42.3	+ 1.8	18	11	7	3.08	+ 1.78	13.0	- 9.7	16	- 11
	Nairn	59	32	47.4	36.9	42.0	+ 2.1	15	14	7	0.82	+ 0.45	*	*	*	*
	Aberdeen	62	30	50.6	37.7	44.0	+ 3.6	32	12	4	0.47	- 0.03	33.5	+ 5.3	40	+ 6
	Braemar	55	30	45.0	34.4	39.5	+ 3.1	8	27	4	0.74	+ 0.19	*	*	*	*
	Ochertyre	60	30	52.3	36.7	44.3	+ 4.1	38	15	5	0.61	+ 0.03	*	*	*	*
	Leith	57	34	51.1	38.6	44.7	+ 3.2	33	10	5	0.40	+ 0.10	*	*	*	*
2. ENGLAND N.E.	Marchmont	57	28	50.1	32.3	40.9	+ 1.6	23	38	4	0.29	- 0.25	32.3	+ 7.7	38	+ 9
	Alnwick Castle	59	31	51.2	37.6	44.2	+ 4.1	34	12	5	0.44	- 0.08	*	*	*	*
	Durham	61	31	50.5	36.4	43.2	+ 3.0	32	16	2	0.04	- 0.40	44.5	+ 18.3	53	+ 22
	Shields	60	32	51.0	37.4	44.0	+ 3.2	33	13	2	0.05	- 0.33	*	*	*	*
	Scarborough	62	33	52.5	36.5	44.3	+ 3.0	39	15	2	0.19	- 0.21	46.0	—	55	—
	Spurn Head	54	36	50.3	39.1	44.5	+ 3.5	30	8	3	0.11	- 0.14	*	*	*	*
3. ENGLAND E.	Fulbeck (Lincolnshire)	57	34	53.1	40.0	46.4	+ 5.2	39	6	3	0.23	- 0.07	*	*	*	*
	Hillington	58	31	52.8	36.5	44.4	+ 2.8	40	15	2	0.09	- 0.27	28.8	+ 1.3	34	+ 1
	Yarmouth	56	35	49.7	37.7	43.5	+ 2.9	29	12	3	0.17	- 0.21	*	*	*	*
	Geldeston	60	32	52.5	36.7	44.4	+ 2.7	39	15	2	0.25	- 0.10	26.6	- 3.4	32	- 4
	Cambridge	61	31	54.3	36.2	45.0	+ 2.9	45	16	1	0.12	- 0.18	34.4	+ 5.3	41	+ 6
	Felixstowe	59	37	51.0	40.1	45.4	+ 3.7	32	5	3	0.35	—	30.5†	—	36†	—
4. MIDLAND COUNTIES	Rothamsted	59	32	51.5	36.8	43.9	+ 2.6	35	15	4	0.13	- 0.24	26.7	- 1.3	32	- 1
	Bawtry (Hesley Hall)	57	34	52.9	38.4	45.4	+ 3.8	39	10	2	0.04	- 0.31	*	*	*	*
	Loughborough	60	35	52.9	39.1	45.8	+ 3.7	39	8	3	0.19	- 0.14	*	*	*	*
	Colly Weston (Stamford)	57	33	52.1	37.9	44.8	+ 3.1	37	11	5	0.12	—	*	*	*	*
	Cheadle	56	32	50.6	37.8	44.0	+ 3.5	32	12	3	0.35	- 0.12	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	59	34	52.5	39.4	45.8	+ 4.0	38	7	2	0.24	- 0.11	20.7	—	25	—
5. ENGLAND, S.	Churchstoke	58	32	52.9	38.3	45.0	+ 4.4	37	10	4	0.28	- 0.16	36.0	+ 8.5	43	+ 10
	Hereford	60	34	53.9	40.0	46.7	+ 4.4	41	6	2	0.12	- 0.23	*	*	*	*
	Cirencester	57	31	51.4	38.3	44.7	+ 3.7	34	10	3	0.25	- 0.18	29.9	+ 2.2	36	+ 3
	Oxford	60	35	52.4	40.4	46.2	+ 3.9	36	4	2	0.06	- 0.27	28.4	+ 1.2	34	+ 1
	London	62	36	53.3	39.7	46.3	+ 3.3	40	6	3	0.53	+ 0.20	22.6†	+ 2.4†	27†	+ 3†
	Swarraton (Alresford)	56	33	51.7	39.1	45.2	+ 4.1	35	8	3	0.33	- 0.12	*	*	*	*
6. SCOTLAND, W.	Dungeness	54	35	49.7	41.4	45.4	+ 3.5	26	2	3	0.11	- 0.22	27.5	—	33	—
	Hastings (St. Leonards)	54	38	50.0	41.6	45.7	+ 3.3	28	1	2	0.09	- 0.35	26.2	- 6.3	31	- 8
	Southampton	59	38	54.2	42.2	48.0	+ 4.4	42	0	4	0.26	- 0.18	19.8	- 10.4	24	- 12
	Portland Bill	51	41	48.7	43.3	45.9	+ 1.8	27	0	4	0.21	—	—	—	—	—
	Shaftesbury	?	35	?	39.1	?	?	?	?	3	0.10	0.36	*	*	*	*
	Laudale (Loch Sunart)	52	34	49.4	39.0	44.1	+ 2.5	27	8	7	2.61	+ 1.28	*	*	*	*
7. ENGLAND, N.W	Glasgow	51	34	46.8	38.0	42.3	+ 1.8	19	11	7	0.95	+ 0.41	15.9	- 4.7	19	- 5
	Cally	56	28	51.8	36.0	43.7	+ 2.6	37	17	5	0.91	+ 0.06	*	*	*	*
	Douglas (Isle of Man)	54	36	48.3	39.6	43.8	+ 2.1	23	7	6	0.38	- 0.23	38.3	+ 6.8	46	+ 8
	Newton Reigny	57	30	48.9	37.9	43.2	+ 3.7	26	11	5	0.58	—	41.4	—	49	—
	Stonyhurst	51	33	47.2	38.1	42.5	+ 1.8	20	11	6	1.03	+ 0.29	26.2	+ 1.1	31	+ 1
	Blackpool	51	36	48.5	40.6	44.4	+ 3.1	23	4	6	0.37	- 0.08	30.6	+ 14.6	47	+ 17
8. ENGLAND, S.W.	Manchester (Prestwich)	55	34	49.9	38.3	43.9	+ 2.8	29	10	6	0.42	- 0.13	27.6	—	33	—
	Liverpool Obs. (Bidston)	57	35	49.6	39.9	44.6	+ 2.5	27	6	4	0.23	- 0.14	34.3	—	41	—
	Chester	61	36	52.3	41.3	46.6	+ 3.8	35	2	4	0.34	—	*	*	*	*
	Llandudno	57	35	50.0	41.0	45.4	+ 2.1	28	3	6	0.60	+ 0.17	36.0	+ 10.2	43	+ 12
	Holyhead	50	35	47.6	40.6	44.0	+ 0.8	20	4	6	0.45	- 0.04	*	*	*	*
	Llandoverly	57	33	51.4	40.3	45.7	+ 3.6	33	5	6	0.92	+ 0.17	*	*	*	*
9. IRELAND, N.	Pembroke	49	36	47.1	41.9	44.4	+ 1.3	17	0	5	0.38	- 0.12	31.0	- 0.6	37	- 1
	Clifton	58	36	51.4	41.9	46.5	+ 3.7	32	0	3	0.34	- 0.16	*	*	*	*
	Bath	—	37	—	41.3	—	—	—	—	—	—	—	26.1	—	31	—
	Arlington (N. Devon)	53	34	48.4	39.7	43.9	+ 2.8	23	6	6	1.45	+ 0.69	*	*	*	*
	Cullompton	56	34	52.3	40.0	46.0	+ 2.3	36	6	3	0.37	- 0.16	25.5	- 3.7	30	- 5
	Falmouth	54	37	50.3	42.3	46.2	+ 1.7	29	0	5	0.63	- 0.07	31.1	- 1.6	37	- 2
10. IRELAND, S.	Plymouth	54	38	51.4	43.9	47.5	+ 3.2	39	0	6	0.23	- 0.33	24.3	- 7.4	29	- 9
	Malin Head	50	36	46.4	40.3	43.3	+ 0.8	16	5	7	1.38	—	*	*	*	*
	Edenfel (Omagh)	56	30	47.9	38.0	42.8	+ 2.2	22	11	6	0.57	+ 0.02	*	*	*	*
	Blacksod Point	53	35	48.6	41.9	45.2	+ 1.3	23	0	7	1.54	—	*	*	*	*
	Markree Castle	57	32	50.4	37.5	43.8	+ 1.6	32	13	7	1.04	+ 0.41	17.6	- 7.1	21	- 8
	Armagh	59	31	50.2	38.0	43.9	+ 2.5	30	11	5	0.50	+ 0.06	20.2	- 4.2	24	- 5
CHANNEL ISLANDS	Donaghadee	61	31	50.9	37.1	43.8	+ 1.4	33	14	5	0.30	- 0.12	*	*	*	*
	Dublin	59	33	51.6	40.1	45.7	+ 2.0	34	5	6	0.52	+ 0.09	26.7	- 2.3	32	- 3
	Parsonstown	60	30	50.9	37.7	44.1	+ 1.6	33	12	5	0.65	+ 0.15	17.6	- 8.8	21	- 10
	Kilkenny	58	30	50.9	37.9	44.2	+ 0.8	33	11	5	0.36	- 0.11	*	*	*	*
	Roche's Point	58	34	49.9	40.1	44.9	+ 0.3	28	5	5	0.16	- 0.55	*	*	*	*
	Valencia	57	37	50.4	43.0	46.6	+ 1.1	32	0	6	1.47	+ 0.61	19.3	- 11.4	23	- 14
CHANNEL ISLANDS	Killarney	60	34	54.1	41.0	47.4	+ 2.6	42	3	6	0.93	+ 0.11	*	*	*	*
	Foynes	57	34	50.0	40.4	45.1	+ 1.4	22	4	4	0.71	+ 0.16	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	41	51.4	45.9	48.6	+ 2.5	46	0	5	0.38	- 0.22	33.2	—	40	—
	Jersey	55	40	52.1	44.7	48.3	+ 3.2	44	0	4	0.46	- 0.04	29.5	- 6.3	35	- 8

Stations marked *fl* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 16th March.

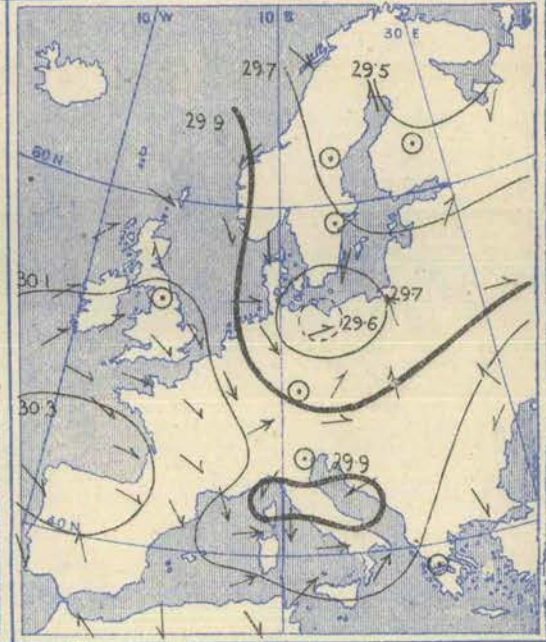
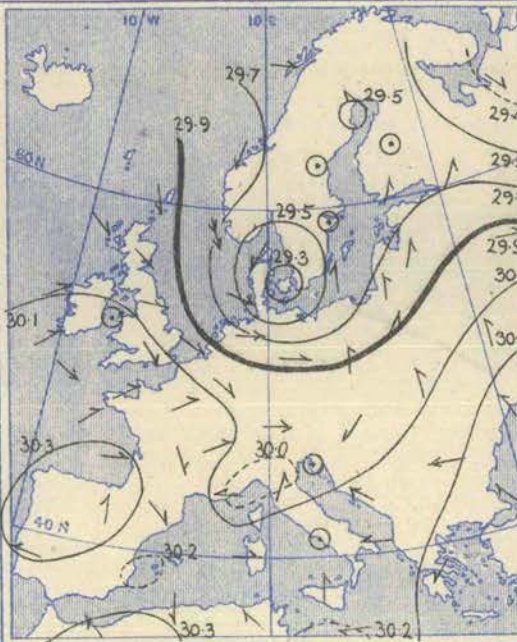
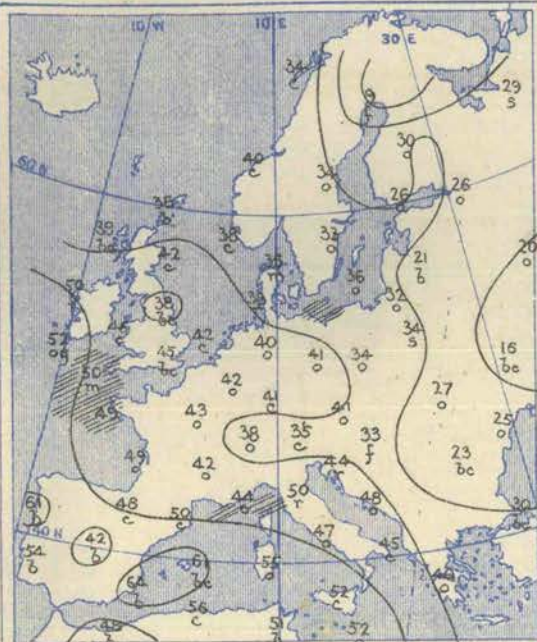
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull generally, but fine and bright over Algeria, the Spanish Peninsula, the south of Russia, and the greater part of England. Showery at some of our western stations, rainy to the eastward of the North Sea, and in some parts of northern Italy, and snow falling at Archangel, Cracow, and Copenhagen. Slight rain falling later in the north and west of our Islands and in some parts of France, and heavier amounts in Italy—nearly an inch at Naples. Snow prevailing in several Scandinavian and Russian localities, and also over north Germany.

Temperature at 8 a.m. highest, 64° at Alicante, 61° at Palma and Oporto, and above 50° on most Mediterranean shores, and also in the south-west of Ireland. Lowest, 9° at Haparanda, 13° at Kharkov, and many degrees below 32° over Russia, Finland, and Transylvania generally, and no higher than 30° at Constantinople, and 33° at Athens. Maxima during day between 50° and 57° in many parts of Ireland and England, 62° at Palermo, and 68° at Algiers and Madrid, but not exceeding 50° at Cetta, 46° at Athens, and 42° at Constantinople.

Wind at 8 a.m. showing three distinct cyclonic circulations, the first and most important being round Denmark, the second over northern Italy, and the third over the north of Sweden. Winds generally light or moderate in force, but South-Westerly and Westerly current strong in north Germany, and a gale from North-North-West blowing at Skudesnaes. Strong South-Westerly and South-Easterly winds prevailing in some parts of Italy. Wind decreasing in strength over north Germany and at Skudesnaes later, and increasing from between North-West and West or South-West in the south of France, Corsica, Sardinia, Sicily, and at Rome.

Barometer at 8 a.m. highest, 30.3 ins. and upwards (1) over the south-west of France and the northern half of Spain, and (2) over south-eastern Europe and Asia Minor. Lowest, below 29.3 ins. in a well-defined depression with its centre near Copenhagen, below 29.5 ins. in another near Haparanda, and 30.0 ins. and less in a third system over northern Italy. First and last mentioned disturbances moving south-eastwards during day, and that in extreme north travelling eastwards.

Monday, 17th March.

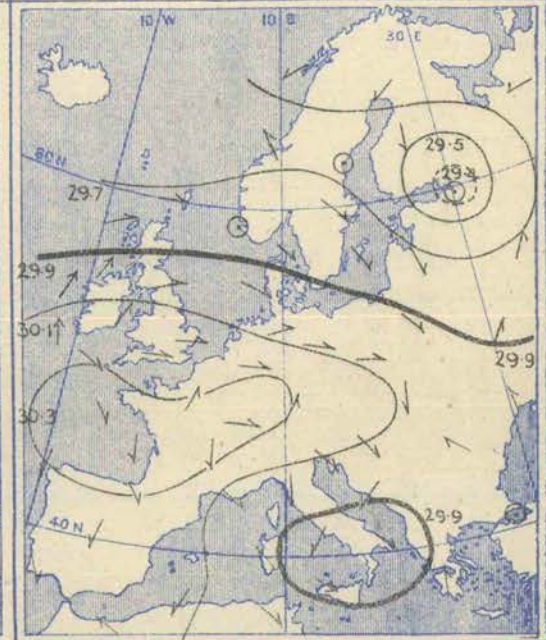
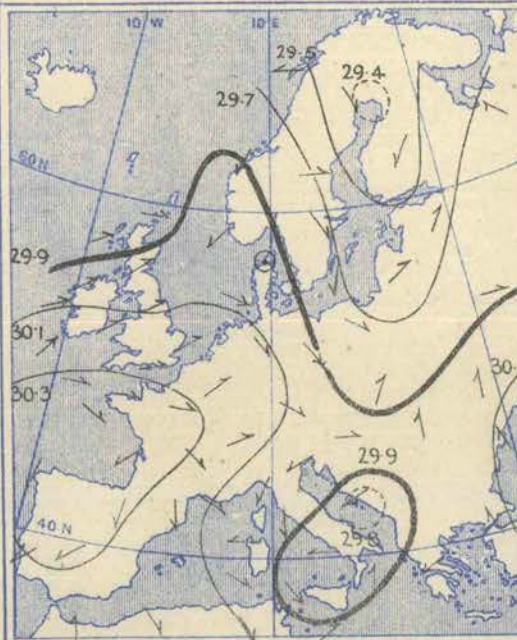
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over the greater part of Scandinavia, in the south of France, and at many Spanish, Italian, and Algerian stations, but rainy at Brindisi, Palermo, and Malta, and snow falling in the north of the Gulf of Bothnia. Cloudy or dull in nearly all other regions, with rain in places over the north and north-west of our Islands, and at Lésina, and rain or snow in some Austrian and Bavarian districts. Sky clearing later in most parts of the United Kingdom, but rain continuing in the north-west, and nearly half an inch falling at Christiansund, and more than an inch at Brindisi. Snow setting in over Finland and northern Russia.

Temperature changed irregularly. 8 a.m. readings highest, 69° at Algiers, 58° at Lieboon and Barcelona, 51° at Nairn, and 50° at Wick. Lowest, 9° at Archangel, 23° at Kharkov, and below 32° in most parts of Russia and Sweden. Rising subsequently to 62° or 60° in many British localities and in the Riviera, to 66° in Algeria, and to 68° at Madrid, but not exceeding 50° at Naples, and 55° at Malta.

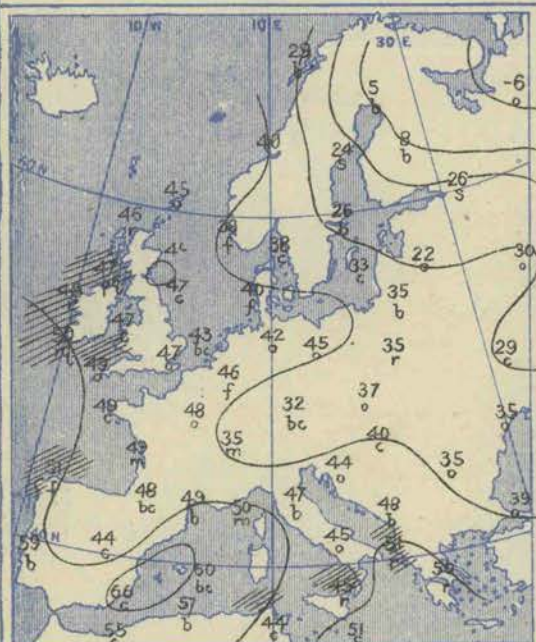
Wind in morning light to fresh or strong from South-West and West over our Islands and their vicinity, and light from some Northerly point over Scandinavia, and from South-West or South over the more eastern and north-eastern countries. A separate cyclonic circulation of light or moderate winds over the Adriatic and southern Europe generally, but light and anticyclonic North-Easterly airs over Spain and the south-west of France. No material change during day, but wind in Finland veering to North or North-West.

Barometer fallen briskly over Italy and south-eastern Europe, and slowly over the major portion of Russia. Risen in most other places, but fallen in Scotland. Readings at 8 a.m. highest, 30.3 ins. and upwards over the Bay of Biscay, and the greater part of France and Spain. Lowest, 29.4 ins. and less in a disturbance over the east of Lapland, below 29.8 ins. in another system lying over the Adriatic, and also in a disturbance approaching Scotland from the north-westward. High pressure area extending eastwards later; the extreme northern disturbance and that in the Adriatic both moving southwards, and that off the north of Scotland travelling eastwards.

Tuesday, 18th March.

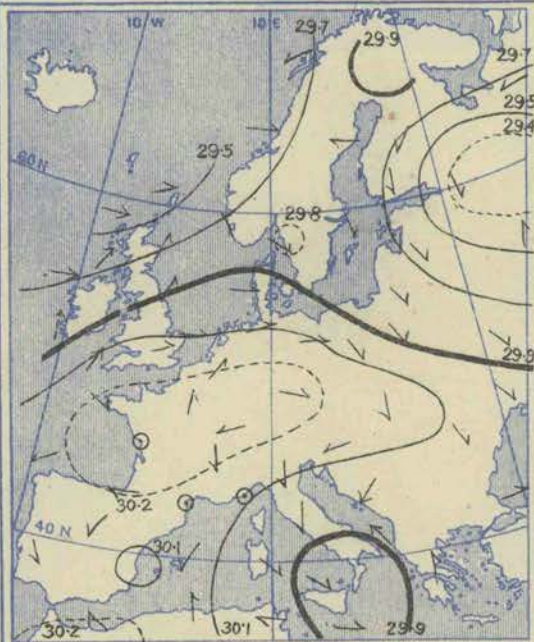
Temperature and Weather.

8 a.m.

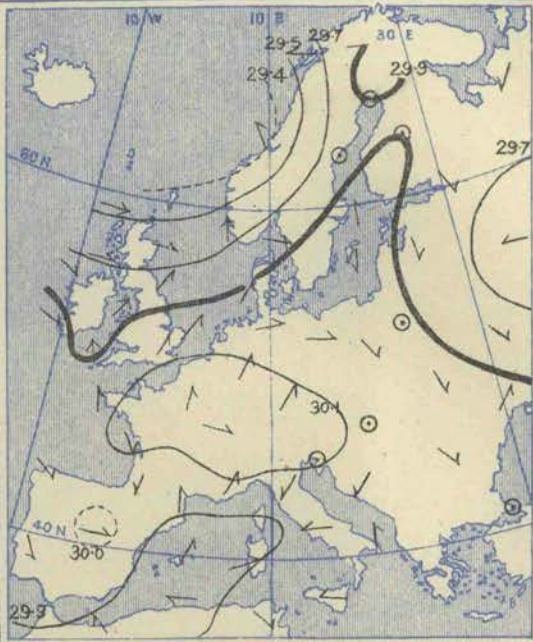


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. cloudy or dull generally, but fine and bright at a few of our own stations, and in different parts of the Continent. Rain falling on our north-west coasts, at Swinemünde and Warsaw, as well as in Greece, and at Palermo and Brindisi, and snow at Kharkov, Hernösund, and Neufahrwasser. Rain at nearly all our western and north-western stations later in day, and rain or snow in various parts of Russia and central Europe.

Temperature fallen quickly over Finland and northern Russia, changed irregularly elsewhere. Readings at 8 a.m. highest 66° at Alicante, 60° at Palma, and 59° at Lisbon. Highest in our Islands, 51° at Leith. Lowest—(1) - 6° at Archangel, + 2° at Uleaborg, 3° at Kuopio, 22° at Riga, and 29° at Kiev; (2) 32° at Munich, and 35° at Limoges. Rising subsequently to 56° at Shields, 60° at Donaghadee, 61° at Nice, 63° at Madrid and Lisbon, and to 72° at Oporto. Not exceeding 38° at Memel and Lemberg.

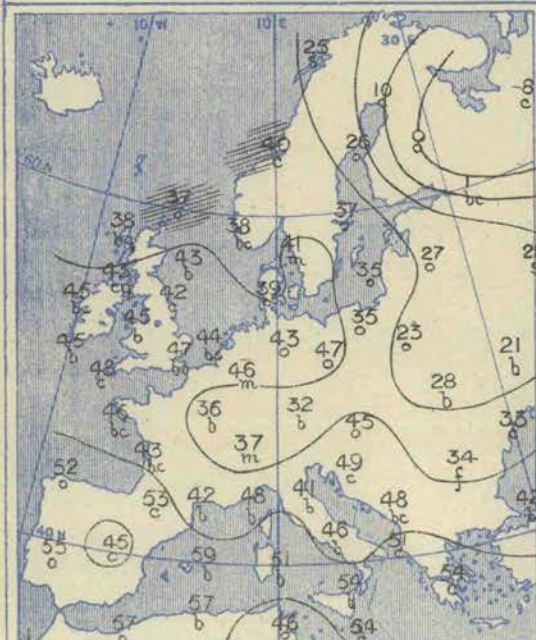
Wind in morning South-Westerly over our Islands and the North Sea, and blowing freshly or strongly in the west and north-west. Two cyclonic circulations shown—one over Finland and northern and central Russia, and the other over Italy and the adjacent parts of the Mediterranean. Wind veering to North-West or West in Ireland and the west of Scotland by evening, and blowing strongly and increasing from South in the west of Norway. Cyclonic circulations on the Continent becoming much less marked.

Barometer fallen over the extreme parts of western Europe and in Russia, risen over the southern, central, and northern regions. Readings at 8 a.m. highest, 30.2 ins. (1) in an elongated anticyclone stretching from the Bay of Biscay to the west of Austria, and (2) over the western part of Algeria. Lowest, 29.4 ins. and less in a cyclonic system over Great Russia; below 29.5 ins. in another system off our own northern coasts, and below 29.9 ins. over the south of Italy and its vicinity. All the cyclonic disturbances, and also the anticyclone moving eastwards later, and a shallow depression forming over central Spain. A secondary disturbance appearing over the St. George's Channel from the westward.

Wednesday, 19th March.

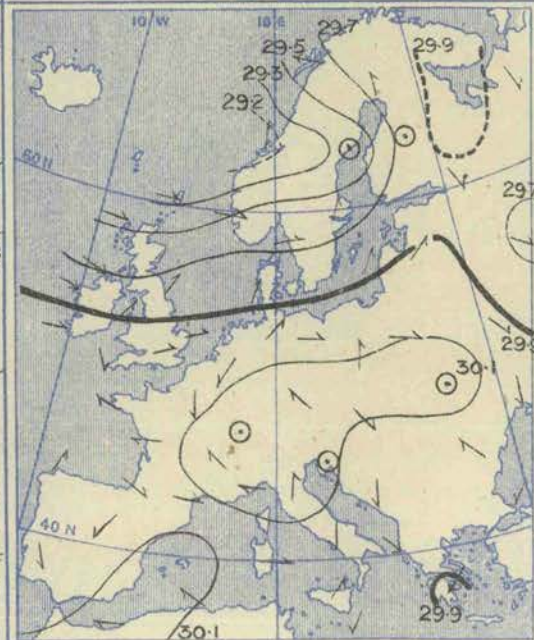
Temperature and Weather.

8 a.m.

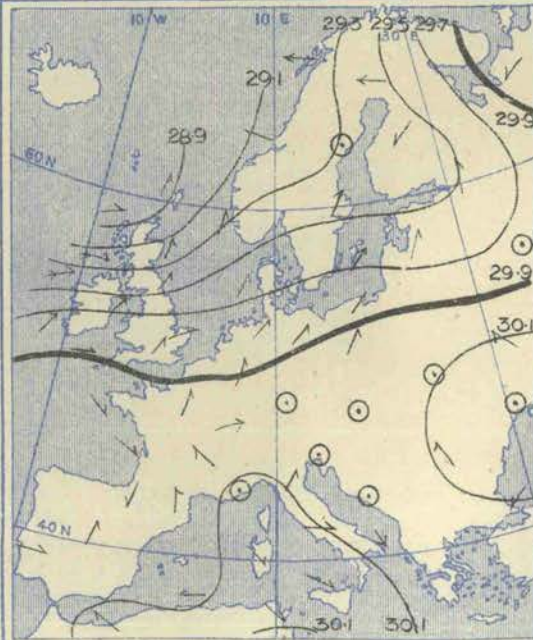


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but fine and bright in most parts of the United Kingdom, France, and Italy. Showery at one or two of our own southern stations, and at Stornoway; rainy at Athens, and snow falling at Bodö and St. Petersburg. Nearly half an inch of rain falling subsequently in the extreme north and north-west of our Islands, and smaller amounts in most other British districts. Slight rain or snow experienced in some parts of northern Europe.

Temperature fallen at most of our own stations, and also over France and Russia, changed little elsewhere. 8 a.m. readings highest, 59° at Palma, 57° at Barcelona, Algiers, and Nemours. Lowest—8° at Archangel, zero at Kuopio, + 1° at St. Petersburg, 10° at Haparanda, and 21° or 22° in Little Russia. Lowest in our Islands, 37° at Parsonstown and Sumburgh Head. Rising during day to 55° at Jersey, 58° in London, to 70° at Perpignan, and to a few degrees above 60° at most other French stations, but not touching 50° in the north and north-west of our Islands, and remaining much below 32° over northern Europe.

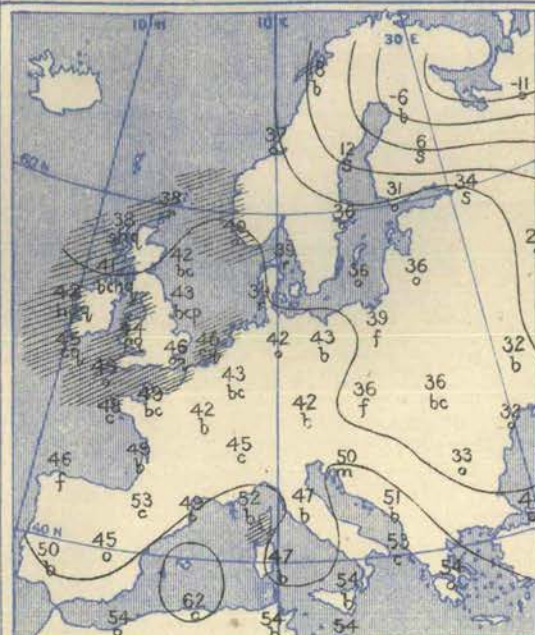
Wind in morning Westerly or South-Westerly over the United Kingdom, the Netherlands, and Germany, and drawing into South and South-East over Sweden and the north of Norway. Moderate in force generally, but strong in the north of Ireland, as well as at Bodö. Light and mainly from some Northerly point over southern Europe. Wind backing and increasing greatly in strength over our Islands during day, and attaining the force of a strong gale in the north of Ireland.

Barometer fallen in most parts of western and north-western Europe, risen in the east and south. Readings at 8 a.m. highest, 30.1 ins. and upwards (1) in an irregularly-shaped anticyclone embracing a considerable portion of central Europe and extending to central France, the Gulf of Genoa, and northern Italy; (2) over western Algeria and the Balearic Isles. Lowest, 29.2 ins. and less in a cyclonic system off the west of Norway; below 29.7 ins. over central Russia, and below 29.9 ins. in a shallow system over the southern part of the Bay of Biscay. Highest pressures subsequently becoming transferred to southern and south-eastern Europe, and a fresh and very deep disturbance approaching the north of Scotland.

Thursday, 20th March.

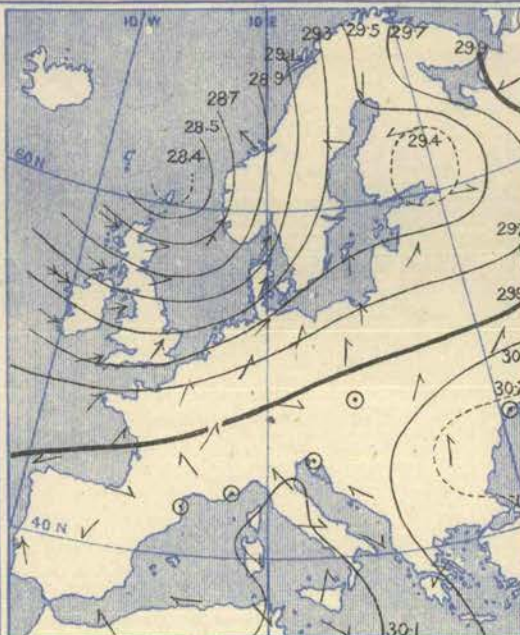
Temperature and Weather.

8 a.m.

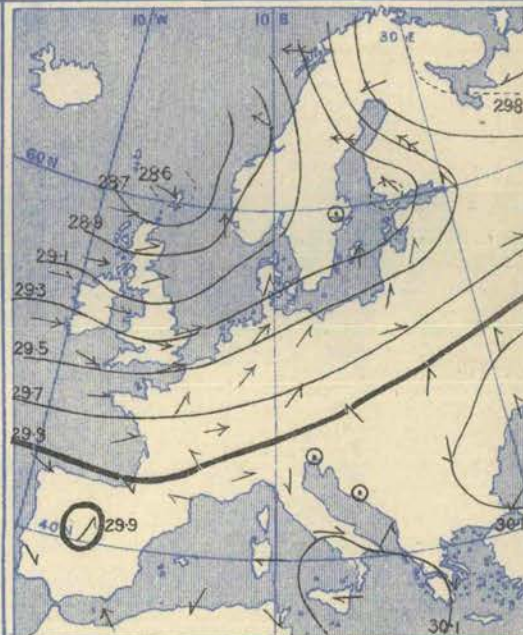


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in Tunis, several parts of Italy, and at stations over central Europe; cloudy or dull in nearly all other regions. Showery and squally over the United Kingdom and its immediate neighbourhood, rainy in Denmark and the south of Scandinavia, and snow falling at St. Petersburg and Kuopio. Rain or hail falling later throughout the British Isles; rain over the Netherlands, the greater part of France, and in Algeria, and snow in different parts of Russia and Sweden.

Temperature risen rapidly over the Gulf of Finland and its vicinity, and fallen decidedly in the north of Sweden. Readings at 8 a.m. highest, 62° at Algiers, 61° at Bilbao, 59° at Barcelona and 50°, or a little above, at most coast stations in southern Europe. Lowest (1) several degrees below zero over the extreme northern districts of Russia and Sweden; (2) 25° at Moscow and Kiev; (3) 34° at St. Petersburg. Lowest in our Islands, 35° at Stornoway. Remaining below 50° in most parts of this country all day, but rising to 68° at Frankfurt and Lyons, to 68° at Bordeaux and in western Algeria, and to 70° at Algiers and Tunis.

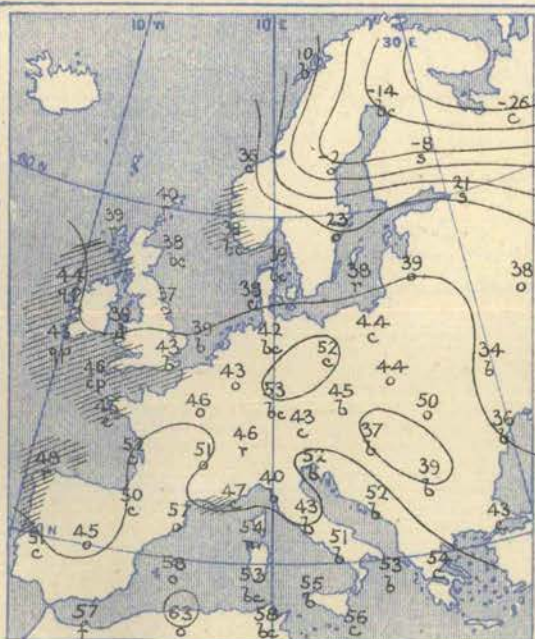
Wind in morning strong to a gale from between West and South-West over the United Kingdom, the north of France, and the Netherlands, and from the South-Westward and Southward on the eastern shores of the North Sea; drawing into South-East and East, and blowing strongly in the north-west and north of Norway. A separate cyclonic circulation of light winds over Finland and the north of Russia. Light variable airs prevailing over the southern countries. Wind decreasing somewhat in force over most parts of our Islands later, but increasing to a gale from South East or East over Finland and the north of Scandinavia; no material change elsewhere.

Barometer risen over south-eastern Europe, fallen elsewhere—very briskly over Finland, and very rapidly over the north of our Islands and in the west of Norway. Morning readings highest, above 30.2 ins. over Roumania, Bulgaria, and the Black Sea. Lowest, 29.4 ins. and less in the centre of a very deep disturbance lying over the Shetlands; 29.4 ins. and less in another system over Finland. Latter system becoming much deeper during day, and the former considerably less deep. A shallow depression forming over central Spain by evening.

Friday, 21st March.

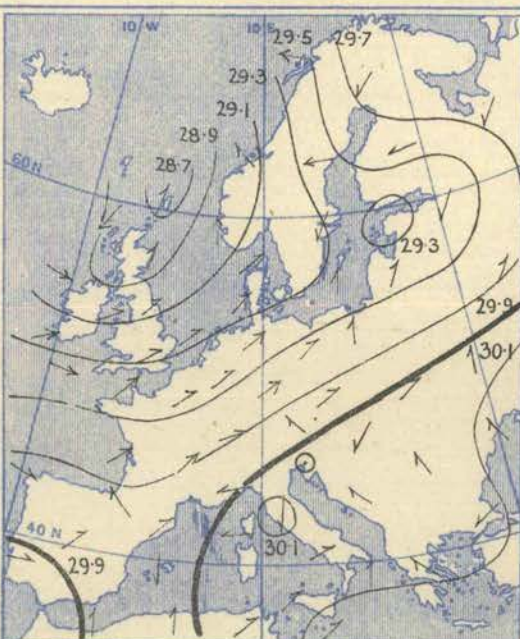
Temperature and Weather.

8 a.m.

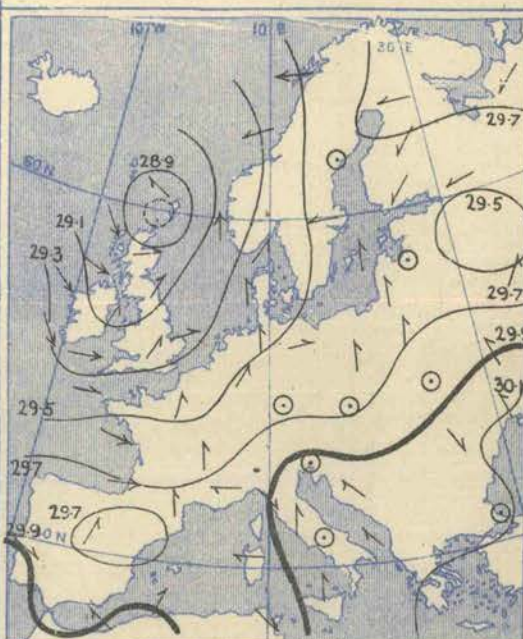


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in many parts of Italy and over the more south eastern parts of Europe, and also in the north of Scandinavia; temporarily fine and bright at some of our own stations. Cloudy or dull elsewhere, with showers of cold rain or hail in the west and north of these Islands, rain in some parts of France, and in the north-west of Spain, as well as in the south of Sweden, and snow falling in Finland. Heavy rain during day over the more southern and central parts of France, and smaller amounts in Algeria, and over our Islands. Rain or snow occurring in various parts of northern Europe.

Temperature fallen over our Islands, Scandinavia, and the north of Russia, risen in most other regions. Readings at 8 a.m. ranging from 63° at Algiers, 58° at La Calle and Palma, and above 50° on most of the shores of the Mediterranean, to between 46° and 35° over the United Kingdom, 34° at Helsingfors, 10° at Bodö—14° at Inaranda, and to—26° at Archangel. Failing to rise to 50° during day at all our own stations except London and Jersey, but exceeding 60° at some southern French stations and in most parts of Italy, and touching 73° at Algiers.

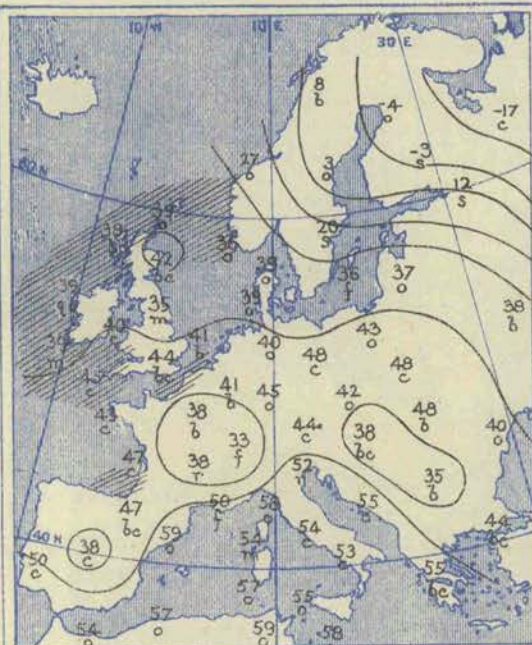
Wind in morning South-Westerly over nearly the whole of north-western Europe, but drawing into South-East and East over the northern parts of Norway and Sweden, and into North-North East at Stornoway. Strong in force on some British and Irish coasts, and in the far north; moderate or light elsewhere. Light and variable over southern Europe, and light from the Southward in Algeria. Wind veering to the Northward or North-Westward on our western coasts later, and blowing freshly or strongly; no material change elsewhere.

Barometer at 8 a.m. highest, above 30.1 ins. over the extreme south-east of Europe. Lowest, 28.7 ins. and less in a disturbance near the Shetlands, and below 29.3 ins. in another over the Gulf of Finland and the northern portion of the Baltic. Depression near Shetlands moving slightly southwards during day, and that over northern Europe moving eastwards to Russia. A shallow disturbance appearing over the northern parts of Spain.

Saturday, 22nd March.

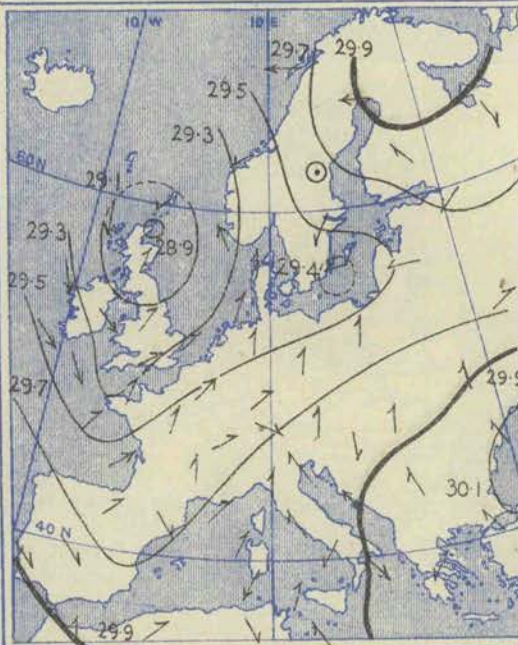
Temperature and Weather.

8 a.m.

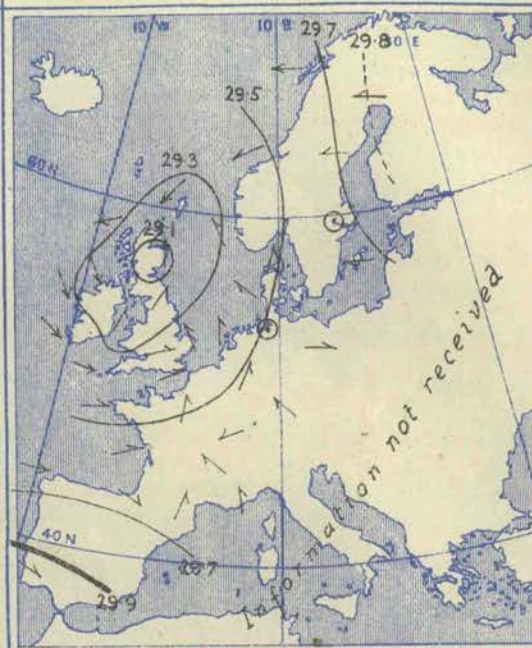


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in most places, but fine and bright in Little Russia, Greece, and at some Hungarian stations. Rain or hail showers falling in many parts of our own western districts, and sleet at Nairn. Snow prevailing in some localities of northern Europe, and rain at Lyons and Turin. Rather heavy rain later in the south and west of Ireland, at Biarritz, Nice, and Corunna, and smaller quantities over north-western Europe generally.

Temperature risen in the extreme north of Russia and Scandinavia, and over Italy, fallen in Finland, the south of Sweden, over Germany, France, and Algeria. Readings at 8 a.m. highest, 59° at La Calle, Sfax, and Barcelona, 58° at Leghorn, and above 50° at the Mediterranean stations generally. Lowest—17° at Archangel, - 3° at Kuopio, + 8° at Bodø, 12° at St. Petersburg. Below 40° over the greater part of the United Kingdom, and no higher than 38° at Madrid, Paris, and Lyons. Rising during day to 50° at Leith, 54° at Nice, and 55° at Lorient and Lisbon. Not exceeding 10° in the north of Sweden.

Wind in morning North-Westerly over the western half of our Islands, South-Westerly or Southerly over France, Germany, Denmark, and our own eastern districts, and drawing into South-East and East over Scandinavia; fresh or strong in force on our western coasts, and in the west of Norway. Light from the South-Eastward over south-eastern Europe, and light to fresh from various directions over the Mediterranean and the southern countries. Very little change during day as a whole, but wind shifting to East-North-East in the Hebrides and increasing to a gale.

Barometer risen over the more northern regions, fallen in the south. Readings at 8 a.m. highest, 30.1 ins. and upwards over the Black Sea and its immediate vicinity. Lowest, below 28.9 ins. in the centre of a cyclonic disturbance of diminishing energy lying near Wick, and below 29.4 ins. over the whole of the United Kingdom, Denmark, and the south-west of Norway; 29.4 ins. and less in a separate system over Gethland, and about 29.6 ins. in two small minima near Toulon and Barcelona. Northern cyclonic system continuing to grow less deep and to move slowly southwards during day.

GENERAL NOTES.

During the earlier half of the period areas of relatively high pressures were shown both over the south-west and south-east of Europe, but later on the south-western anticyclone moved eastward to the southern countries and the Mediterranean. The cyclonic systems, which were at first observed over Italy and the more northern countries, were subsequently confined to the latter regions. They were rather numerous, but the only disturbance of unusual importance was one that reached the neighbourhood of the Shetlands on Thursday and then travelled very slowly southwards to the north-east of Scotland and gradually became less deep. This system caused strong winds or gales from between S.W. and W. or W.N.W. in most parts of the United Kingdom, but the South-Westerly and Westerly current which generally prevailed over the northern half of Europe was only light or moderate

in force. Late on Thursday, however, a strong Easterly gale, accompanied by a very low temperature, was experienced in some parts of Finland and Scandinavia. Over southern Europe the winds were mainly light and variable, but were occasionally strong during the early days of the week over Italy and its neighbourhood. Rain was frequent over our Islands, and rain or snow fell at intervals over northern Europe generally; in the more southern countries the weather was mostly dry until towards the end of the period, when heavy rain occurred over the more southern and central departments of France. Temperature was very low at times over northern and eastern Europe. At the commencement of the week it was very low in the extreme south-east; at Constantinople and Athens on Sunday morning the thermometer stood at 30° and 33° respectively.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 68.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.
DEERNES	14.0	- 11.3	17	- 14	THURCASTON	30.9	+ 6.9	37	+ 9	BOURNEMOUTH	29.3	—	35	—
STRATHPEFFER SPA	22.4	+ 1.4	27	+ 2	MARGATE	25.7	- 3.5	31	- 4	SOUTHPORT	39.1	—	47	—
EDINBURGH	27.9	+ 5.6	33	+ 6	BROADSTAIRS	26.0	—	31	—	RHYL	47.8†	—	57†	—
MORPETH	49.9	—	59	—	EASTBOURNE	27.6	- 4.3	33	- 6	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	35.0	—	42	—	BRIGHTON	23.3	- 3.6	34	- 4	ABERDOVEY	42.1†	—	50†	—
YORK	33.0	+ 3.2	39	+ 10	WORTHINGTON	30.0	—	36	—	TENBY	36.2	+ 2.6	43	+ 3
LOWESTOFT	28.5	—	34	—	BOGNOR	33.4†	—	40†	—	NEWQUAY	24.8	- 7.7	30	- 9
HOLLESLEY BAY	31.0	—	37	—	WATERGATE	18.9	—	23	—	TORQUAY	22.9	- 10.4	27	- 13
DUNMOW	26.0	—	31	—	WESTBOURNE	25.7†	- 7.7	31†	- 9	CAHIR (Duneske)	19.3†	—	23†	—
SHEFFIELD	4.42	—	53	—	VENTNOR HOSPITAL	23.9	- 10.7	28	- 14	GUERNSEY	30.4†	- 4.8	36†	- 6
WORKSOP	36.8	+ 12.8	44	+ 15										

† The values at Bognor, Westbourne, Rhyll, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature.						Rainfall.			Bright Sunshine.			
		(In Degrees Fahrenheit.)												
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.					
Week ending March 1st 1902.	Lairg	52	20	45.7	34.5	40.1	+ 4.1	10	29	5	0.29	—	—	—
" " 8th.	Rhyll	—	—	—	—	—	—	—	—	—	—	18.7	—	26
" " 15th.	Cahir	—	—	—	—	—	—	—	—	—	—	23.7	—	31
	Tenby	—	—	—	—	—	—	—	—	—	—	16.0	- 15.0	20

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. : W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, MARCH 29TH, 1902.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE
UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 74.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	22	43.6	29.3	36.3	4 below	Day-deg. 4	Day-deg. -11	Day-deg. 45	Day-deg. +17	Day-deg. 98	Day-deg. - 8	Day-deg. 511	Day-deg. + 61
	1. SCOTLAND, EAST	51	18	44.8	29.7	37.1	4 below	8	-12	44	+15	127	- 15	558	+ 54
	2. ENGLAND, N.E.	56	26	47.7	34.4	40.9	1 below	16	- 6	30	+ 5	193	+ 38	408	- 22
	3. ENGLAND, EAST	58	27	50.7	34.7	42.5	0 (average)	34½	+ 6	20	- 6	221	+ 37	413	- 60
	4. MIDLAND COUNTIES	59	25	51.0	35.1	42.8	0 (average)	35	+ 6	19	- 7	250	+ 46	406	- 70
	5. ENGLAND, SOUTH	59	26	51.3	37.7	44.3	1 above	34	+ 3	12½	- 8	239	+ 13	290	- 75
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	61	22	47.8	33.5	40.5	2 below	16	- 5	33	+12	174	+ 17	371	+ 11
	7. ENGLAND, N.W.	57	26	47.9	36.8	42.2	1 below	23	0	15	- 5	194	+ 27	338	- 15
	8. ENGLAND, S.W.	59	26	50.9	37.9	44.2	0 (average)	33	+ 4	11	- 5	276*	+ 24	256	- 24
	9. IRELAND, NORTH	58	28	47.5	36.3	41.8	1 below	15	-11	23	+ 5	195	- 20	272	- 37
	10. IRELAND, SOUTH	59	29	51.4	38.8	44.9	0 (average)	34	+ 3	9	- 3	306	+ 2	198	- 35
	—CHANNEL ISLANDS.	53	35	51.1	42.4	46.6	0 (average)	32	- 2	0	- 6	397	+ 54	97	- 18

DISTRICTS. (See p. 74.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
		10ths of in.	10ths of in.			Ins.	Ins.										
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	1 less	68	+ 7	14.6	+ 0.7	35	+10	40	+12	169	- 7	20	- 1	
	1. SCOTLAND, EAST	5	3	2 less	50	+ 1	4.8	- 2.6	30	+ 3	34	+ 3	190	- 25	22	- 3	
	2. ENGLAND, N.E.	5	5	1 more	41	- 6	3.8	- 1.5	26	- 2	30	- 2	195	- 24	21	- 3	
	3. ENGLAND, EAST	4	5	1 more	42	- 6	3.4	- 1.8	27	- 4	30	- 4	254	- 16	26	- 1	
	4. MIDLAND COUNTIES	3	6	2 more	37	- 8	4.6	- 1.6	28	+ 2	33	+ 2	193	- 12	24	- 1	
	5. ENGLAND, SOUTH	3	8	3 more	35	- 11	4.9	- 1.8	33	- 2	38	- 2	255	- 11	27	- 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	10	2 more	60	+ 5	13.3	- 0.5	30	+ 1	34	+ 1	171	- 33	20	- 4	
	7. ENGLAND, N.W.	6	7	2 more	53	+ 4	6.6	- 1.3	27	0	31	0	213	- 4	24	0	
	8. ENGLAND, S.W.	5	15	9 more	47	- 5	7.6*	- 2.3	26	- 9	30	-11	233	- 31	26	- 4	
	9. IRELAND, NORTH	6	10	4 more	63	+ 6	8.9	+ 0.8	29	+ 2	34	+ 3	168	- 46	19	- 6	
	10. IRELAND, SOUTH	6	15	9 more	49	- 6	9.0	- 1.6	30	0	35	0	217	- 31	25	- 3	
	— CHANNEL ISLANDS.	6	11	6 more	51	- 5	6.0	- 2.5	25	-10	29	-11	256	- 57	27	- 6	

* This value has been altered owing to the receipt of further information.

† The corresponding values in last week's report should be "37" and "2" respectively.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was again unsettled, falls of rain alternating with intervals of clear or partially clear skies being experienced in all districts. Over the southern and central parts of England, however, the rain was again less frequent than elsewhere. At some of the extreme northern stations sleet or snow showers occurred occasionally. A dense wet fog set in on the south-west coast of England on Friday and was still prevalent at the end of the week.

Temperature varied greatly in different parts of the Kingdom. Over Scotland it was from 2° to 4° below the normal, and in England N.E. and N.W. and in Ireland N. 1° below; in England S., however, it was 1° above the mean, and in all other districts just equal to it. The highest of the maxima were recorded, as a rule, on the 27th, but in some Scotch localities they occurred on other dates. They varied from 61° in Scotland W. and 59° in the Midland Counties, England S. and S.W. and Ireland S., to 51° in Scotland E. and 49° in Scotland N. The lowest of the minima were mostly registered during the earlier half of the week, when the thermometer fell to 18° in Scotland E., 22° in Scotland N. and W., and to between 25° and 29° in nearly all other parts of the Kingdom; in the Channel Islands, however, temperature did not descend below 35°.

Rainfall exceeded the mean in nearly all districts, but was a little less than it in Scotland N. and E.

Bright Sunshine differed but little from the mean amount over the country as a whole; it was, however, considerably more than the normal in Scotland N., and equally deficient in England S.W. and the Channel Islands. The percentage of the possible duration ranged from 40 in the first named district to 30 in England E.N.E. and S.W., and 29 in the Channel Islands.

Barometer and Wind. At the commencement of the week the disturbance which had previously been observed in the north was still slowly dispersing, and a cyclonic circulation of moderate winds prevailed over our Islands. At Stornoway, however, the Northerly wind blew with the force of a gale. On Monday another and rather deep disturbance was shown off the west of Ireland, and during that and the following day this system moved quickly eastwards to North Germany, causing strong winds or gales throughout Ireland and England. During the rest of the week conditions were quieter, and the depressions which continued to arrive from the Atlantic were rather shallow and mostly confined to the more northern districts. Quite at the end of the period, however, a system of considerable energy was moving south-eastwards across the North Sea, and causing strong Northerly winds on our north-eastern coasts.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.				
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
0. SCOTLAND, N	Sumburgh Head	47	30	42.9	31.4	37.0	- 2.4	3	37	7	0.61	+ 0.01	*	*	*	*
	Stornoway	49	25	45.6	29.4	37.3	- 3.2	10	45	4	0.46	- 0.26	44.4	+ 16.7	51	+ 10
	Wick	47	25	44.0	29.6	36.6	- 3.9	6	43	2	0.08	- 0.36	*	*	*	*
	Laig	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Glencarron	43	22	41.1	27.2	33.9	- 5.6	0	57	4	1.36	- 0.02	—	—	—	—
	Fort Augustus	46	22	44.3	27.8	35.8	- 5.2	6	50	4	0.61	- 0.03	27.9	+ 7.5	32	+ 9
1. SCOTLAND, E	Fort William	46	26	43.9	30.4	37.0	- 5.6	5	41	6	1.00	- 0.18	26.0	+ 0.8	30	+ 1
	Nairn	49	24	44.6	29.6	36.9	- 4.0	7	44	5	0.20	- 0.16	*	*	*	*
	Aberdeen	47	29	43.9	32.0	37.8	- 3.5	5	35	5	0.25	- 0.25	41.3	+ 11.3	47	+ 13
	Braemar	42	18	39.6	25.2	32.2	- 5.2	0	69	5	0.48	- 0.06	*	*	*	*
	Ochertyre-	51	24	48.1	29.1	33.2	- 3.0	17	47	3	0.29	- 0.27	*	*	*	*
	Leith	51	29	47.7	33.4	40.3	- 2.1	16	32	6	0.21	- 0.20	*	*	*	*
2. ENGLAND N.E.	Marchmont	51	26	45.1	29.1	36.9	- 3.3	9	46	5	0.52	- 0.02	29.5	+ 2.9	34	+ 4
	Alnwick Castle	51	29	45.9	32.5	39.0	- 1.8	11	35	6	0.61	+ 0.10	—	—	—	—
	Durham	55	26	47.3	33.1	40.0	- 1.1	15	33	6	0.42	- 0.02	27.8	+ 0.5	32	+ 1
	Shields	55	32	47.7	35.6	41.5	- 0.1	16	25	5	0.50	+ 0.12	*	*	*	*
	Scarborough	56	30	48.3	33.2	40.5	- 1.7	18	33	6	0.57	+ 0.17	24.5	—	28	—
	Spurn Head	52	33	47.7	36.6	42.0	+ 0.2	16	15	4	0.41	+ 0.15	*	*	*	*
3. ENGLAND E.	Fulbeck (Lincolnshire)	54	30	49.5	35.4	42.2	0.0	29	18	4	0.47	+ 0.15	*	*	*	*
	Hillington	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Yarmouth-	53	31	46.9	34.3	40.4	- 1.2	14	29	7	0.74	+ 0.36	*	*	*	*
	Geldeston	56	29	50.6	34.3	42.2	- 0.6	34	22	4	0.39	+ 0.05	19.7	- 12.3	25	- 14
	Cambridge	58	27	53.7	34.2	43.7	+ 0.5	45	22	2	0.32	0.00	32.2	+ 1.0	37	+ 1
	Felixstowe	57	32	50.5	36.9	43.5	+ 0.6	32	14	3	0.36	—	26.7	—	31	—
4. MIDLAND COUNTIES	Rothamsted	57	27	51.7	34.0	42.6	+ 0.3	38	22	4	0.42	+ 0.03	30.0	+ 0.3	34	0
	Bawtry (Hesley Hall)	55	29	50.0	35.6	42.6	0.0	31	18	4	0.53	+ 0.18	*	*	*	*
	Loughborough	57	30	50.9	36.1	43.3	+ 0.7	34	17	3	0.48	+ 0.15	*	*	*	*
	Colly Weston (Stamford)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Cheadle	56	29	48.6	34.2	41.2	- 0.4	18	31	3	0.74	+ 0.28	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	56	31	49.7	35.6	42.4	+ 0.3	30	18	3	0.58	+ 0.21	21.5	—	25	—
5. ENGLAND, S.	Churchstoke	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Hereford	58	27	52.9	35.1	43.7	+ 0.4	41	19	4	0.59	+ 0.24	*	*	*	*
	Cirencester	58	25	52.1	32.6	42.1	+ 0.2	40	26	4	0.75	+ 0.33	33.2	+ 3.3	38	+ 4
	Oxford	59	31	52.6	36.4	44.3	+ 0.9	40	16	3	0.49	+ 0.15	31.4	+ 2.1	36	2
	London	59	31	52.7	36.9	44.6	+ 0.4	40	14	3	0.41	+ 0.07	23.6	+ 1.0	27	+ 1
	Swarraton (Alresford)	56	26	51.2	34.3	42.5	+ 0.4	36	22	4	0.85	+ 0.40	*	*	*	*
6. SCOTLAND, W.	Dungeness	55	32	51.3	38.6	44.8	+ 2.0	34	10	3	0.37	+ 0.05	37.4	—	43	—
	Hastings (St. Leonards)	57	33	50.9	38.6	44.6	+ 1.3	32	10	4	0.65	+ 0.21	36.5	+ 1.8	42	+ 2
	Southampton	59	31	53.5	37.3	45.2	+ 0.5	42	13	3	0.97	+ 0.53	39.9	- 1.6	36	- 1
	Portland Bill	52	40	49.0	41.9	45.4	+ 0.3	24	0	3	0.89	—	*	*	*	*
	Shaftesbury	55	32	50.6	35.9	43.0	+ 0.7	33	17	4	1.13	+ 0.65	*	*	*	*
	Laudale (Loch Sunart)	48	22	45.1	31.2	37.9	- 4.7	9	38	6	1.60	+ 0.38	*	*	*	*
7. ENGLAND, N.W	Glasgow	50	29	45.1	33.9	39.4	- 2.1	9	30	5	0.39	- 0.13	25.1	+ 2.2	29	+ 3
	Cally	61	24	53.5	32.0	42.4	+ 0.4	45	28	5	1.21	+ 0.45	*	*	*	*
	Douglas (Isle of Man)	55	29	47.6	36.9	42.1	- 0.4	22	14	4	0.82	+ 0.23	34.3	- 0.1	39	0
	Newton Reigny	52	26	46.1	32.6	39.2	- 1.2	11	35	7	0.88	—	25.3	—	29	—
	Stonyhurst	50	31	45.5	35.6	40.4	- 1.2	10	24	6	1.12	+ 0.42	28.5	+ 1.0	33	+ 2
	Blackpool	49	34	46.9	37.6	42.1	- 0.3	19	12	6	0.72	+ 0.23	30.7	+ 3.2	35	+ 4
8. ENGLAND, S.W.	Manchester (Prestwich)	52	31	47.7	35.0	41.2	- 1.0	16	27	7	0.81	+ 0.28	21.9	—	25	—
	Liverpool Obsy. (Bidston)	53	32	47.6	37.6	42.5	- 0.7	22	12	3	0.34	- 0.02	24.3	—	28	—
	Chester	57	30	50.4	37.9	44.0	0.0	31	11	2	20.29	—	*	*	*	*
	Llandudno	54	34	50.0	38.3	44.0	- 0.2	30	10	7	0.69	+ 0.27	22.8	- 5.4	26	- 6
	Holyhead	54	36	48.7	39.7	44.1	0.0	24	6	6	0.86	+ 0.39	*	*	*	*
	Llandovery	59	26	52.1	33.9	42.7	- 0.5	39	23	5	1.40	+ 0.67	*	*	*	*
9. IRELAND, N.	Pembroke	51	37	47.9	40.7	44.2	+ 0.5	21	4	6	1.62	+ 1.14	25.5	- 8.8	29	- 10
	Clifton	56	33	51.5	37.5	44.3	+ 0.5	35	13	3	0.72	+ 0.22	*	*	*	*
	Bath	—	—	—	—	—	—	—	—	—	—	—	31.4	—	36	—
	Arlington (N. Devon)	52	30	48.4	35.7	41.9	- 0.2	18	25	4	2.60	+ 1.86	*	*	*	*
	Cullompton	58	28	53.1	36.0	44.3	- 0.2	41	17	6	1.34	+ 0.80	25.6	- 5.4	29	- 7
	Falmouth	55	37	51.3	41.4	46.2	+ 1.0	32	2	7	1.45	+ 0.77	25.3	- 10.0	29	- 12
10. IRELAND, S.	Plymouth	56	31	52.1	40.1	45.9	+ 0.7	35	5	6	1.44	+ 0.89	24.8	- 9.2	28	- 11
	Malin Head	48	32	44.1	36.9	40.4	- 3.0	6	19	7	0.92	—	*	*	*	*
	Edenfel (Omagh)	54	28	47.0	35.0	40.8	- 0.8	14	27	6	1.05	+ 0.50	*	*	*	*
	Blacksod Point	53	34	49.1	39.4	44.1	- 0.5	26	7	7	1.33	—	*	*	*	*
	Markree Castle	56	30	47.9	36.2	41.9	- 1.1	17	23	7	1.00	+ 0.39	28.3	+ 1.2	33	+ 2
	Armagh	58	28	49.7	35.5	42.4	+ 0.1	30	18	6	0.66	+ 0.21	30.3	+ 3.8	25	+ 5
CHANNEL ISLANDS	Donaghadee	55	29	47.3	34.9	40.9	- 2.4	15	27	5	0.75	+ 0.33	*	*	*	*
	Dublin	57	33	51.9	38.8	45.2	+ 0.6	36	9	6	0.90	+ 0.46	30.1	- 1.2	35	- 1
	Parsonstown	57	31	51.3	36.1	43.5	+ 0.2	35	17	6	1.13	+ 0.63	33.3	+ 4.8	38	+ 6
	Kilkenny	57	29	51.4	37.7	44.4	+ 0.1	35	12	5	1.37	+ 0.89	*	*	*	*
	Roche's Point	59	35	53.0	39.3	46.0	+ 0.6	39	8	5	0.95	+ 0.24	*	*	*	*
	Valencia	53	36	50.6	40.9	45.6	- 0.7	30	3	7	2.33	+ 1.48	27.1	- 5.7	31	- 7
CHANNEL ISLANDS	Killarney	57	34	51.6	39.2	45.2	- 0.2	34	8	5	2.03	+ 1.23	*	*	*	*
	Foynes	53	35	50.1	39.3	44.5	0.0	29	8	5	1.89	+ 1.35	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	51.7	43.9	47.7	+ 1.0	40	9	6	0.92	+ 0.42	19.3	—	22	—
	Jersey	52	35	50.4	40.9	45.5	- 0.6	29	3	6	1.27	+ 0.79	18.9	- 10.5	22	- 22

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

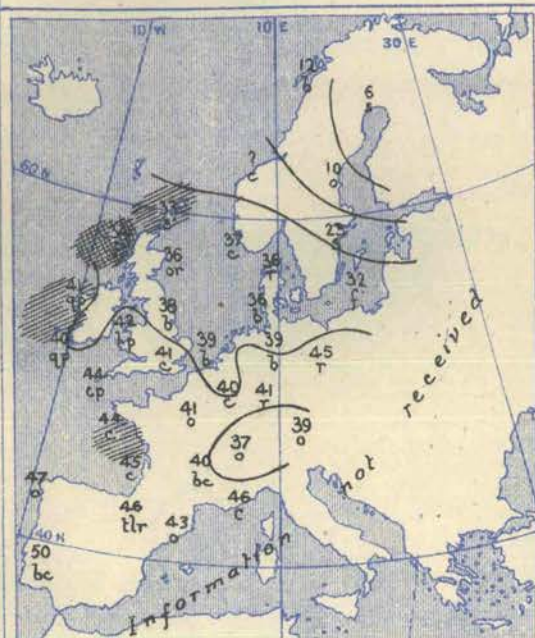
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 23rd March.

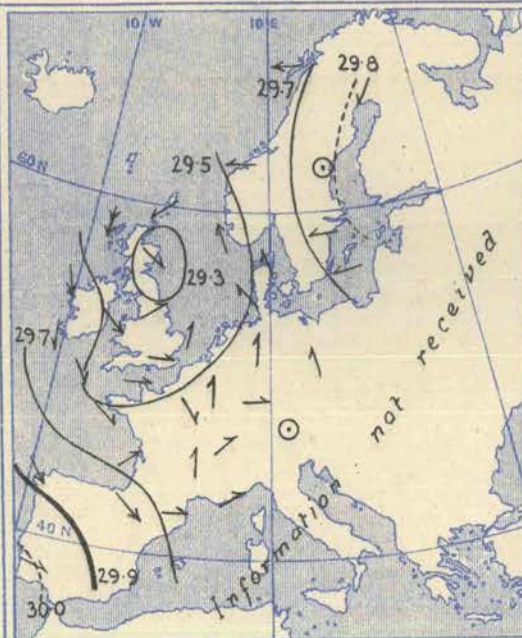
Temperature and Weather.

8 a.m.

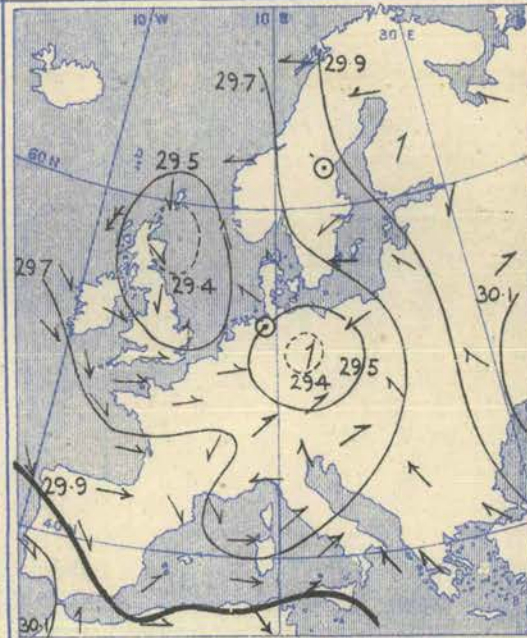


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England, France, and the Netherlands, as well as in the north of Scandinavia. Cloudy or dull in most other parts of western Europe (morning reports from the eastern and southern countries not received), with showers at many of our western stations, and steady rain at Aberdeen, as well as in some parts of Denmark and Germany; snow falling at Sumburgh Head, and also at Stockholm, and a thunderstorm reported at Biarritz. Showers falling later in many parts of the United Kingdom, and considerable quantities of rain at some of the Austrian and Italian stations.

Temperature risen in the west of our Islands, and also in Scandinavia and central France, but fallen elsewhere. Morning readings highest, 50° at Lisbon, 47° at Corunna, and 46° at Nice and Biarritz. Lowest, 6° at Haparanda, 10° at Hernösand, and 12° at Bodö; below the freezing point over Scandinavia, and very little above it in the north of Scotland, and some parts of central England. Daily maxima below 40° in Caithness and the Shetlands, but thermometer slightly exceeding 50° over central and southern England; exceeding 60° over Spain and southern Italy. Frost occurring over the United Kingdom at night.

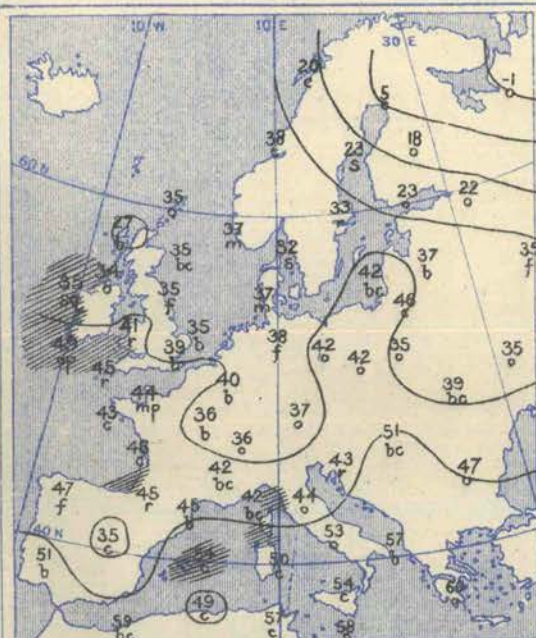
Wind Northerly or North-Westerly in the north and west of our Islands and the west of France, and strong in force in many places, with a gale at Stornoway. Light to moderate from the Westward in the south of England, from the Southward over the Netherlands and the east of England, and from the South-Eastward on the eastern shores of the North Sea; Easterly at most of the Scandinavian stations. Cyclonic circulation of light winds appearing later over Germany; no important change occurring elsewhere.

Barometer highest, 30.0 ins. and upwards, over the southern parts of the Spanish Peninsula; 29.8 ins. and upwards over the Gulf of Bothnia. Lowest, 29.3 ins. and less in a cyclonic system with its centre off the east of Scotland; 29.5 ins. and less in a shallow disturbance over south Germany. Depression off the Scotch coasts moving northwards later and partially filling up; disturbance over Germany also moving northwards, but becoming more clearly defined.

Monday, 24th March.

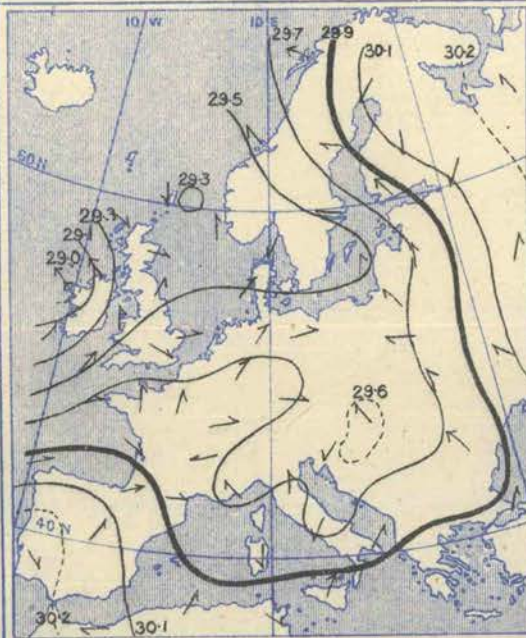
Temperature and Weather.

8 a.m.

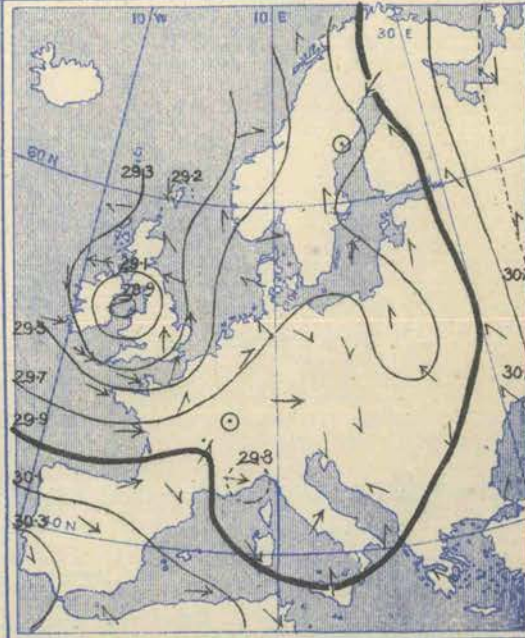


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in all the more northern and eastern parts of Great Britain, and also over the greater part of France, but rain falling on our south-west coasts, and snow at Blacked Point and Parsonstown. Cloudy or dull over the Continent as a whole, with rain at Biarritz and Bilbao, and also in the south of Sweden, and snow at Hernösand, Færder, and the Scaw. Snow falling later in the north of England, and rain in nearly all other parts of western, central, and southern Europe—amount large at many of the French stations. Temperature fallen generally, but risen in Scandinavia. Morning readings highest, 60° at Patras, 59° at Nemours, and 58° at Oran and Malta; above 50° at most of the Mediterranean stations. Lowest, -1° Fahr. at Archangel, +5° at Haparanda, and 15° at Uleaborg; below the freezing point in the northern parts of Russia and Scandinavia generally, and also at some of our own northern stations, the lowest reading in our Islands being 27° at Stornoway. Remaining below 45° all day in the northern parts of the United Kingdom, and below 50° at all stations excepting Jersey. Exceeding 50° in France, and exceeding 60° in many parts of southern Europe. Sharp frost occurring over northern and central Scotland at night.

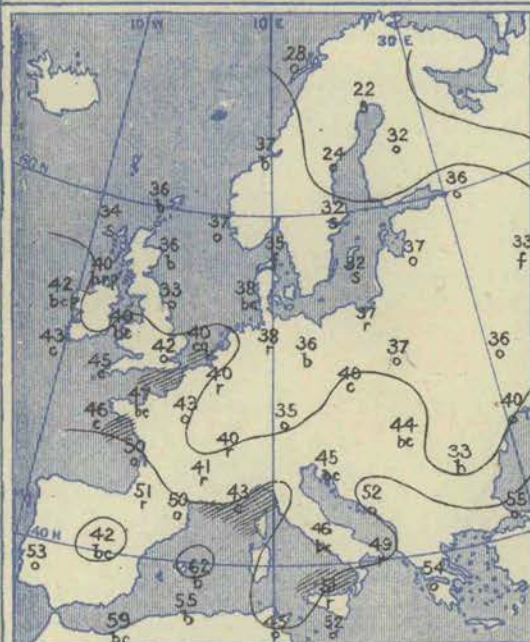
Wind strong from the South-Westward on our south-west coasts, and from the South-Eastward in the north of Ireland, with a gale at Blacked Point. Light from the Westward in Scotland, and from the South-Westward in the east of England, and also in the Netherlands, Denmark, and Germany; Easterly or South-Easterly over Scandinavia and northern Russia; Westerly or North-Westerly in the west and south of France; South-Westerly in Spain, Italy, and Greece. Subsequently increasing to a gale from the Westward on all our southern coasts, and from the Southward in the east of England.

Barometer highest, 30.2 ins. and upwards, in a large anticyclone over Russia, and also in another system over Portugal and the neighbouring parts of the Atlantic. Lowest, 29.0 ins. and less in a deep cyclonic system with its centre off the west of Ireland; 29.3 ins. and less in a shallow disturbance near the Shetlands, and also in another shallow system over the south of Sweden. Cyclonic area off the Irish coasts subsequently advancing steadily eastwards across Ireland and England, and barometer rising again quickly in west.

Tuesday, 25th March.

Temperature and Weather.

8 a.m.

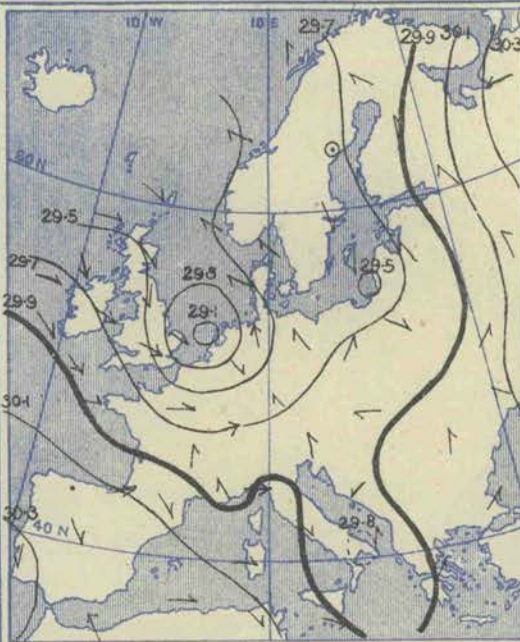


Weather in morning fine over the greater part of our Islands, with hail at Malin Head, and snow at Sornoway. Fine over the Spanish Peninsula, and also over Austria and central Italy, but cloudy over the Continent as a whole, with rain in many parts of France, Germany, and the Netherlands, as well as in southern Italy, and with snow in Sweden. Slight rain falling later in the west and north of our Islands, and larger amounts at some of the Continental stations—as much as 1.2 ins. at Limoges.

Temperature risen over western and northern Europe generally, but fallen in the south-west of our Islands, and also in Germany, Austria, and Italy. Morning readings highest, 62° at Palma, 59° at Nemours, and 58° at Barcelona; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, 10° at Archangel, 22° at Haparanda, 24° at Hernösand, and 27° at Karlstad; below the freezing point over Scandinavia and northern Russia generally, and just touching it at some of our own northern stations. Rising during day to 50°, or slightly above it, in several isolated parts of Great Britain; exceeding 60° in many parts of southern Europe, and reaching 72° at Barcelona.

Barometer and Wind.

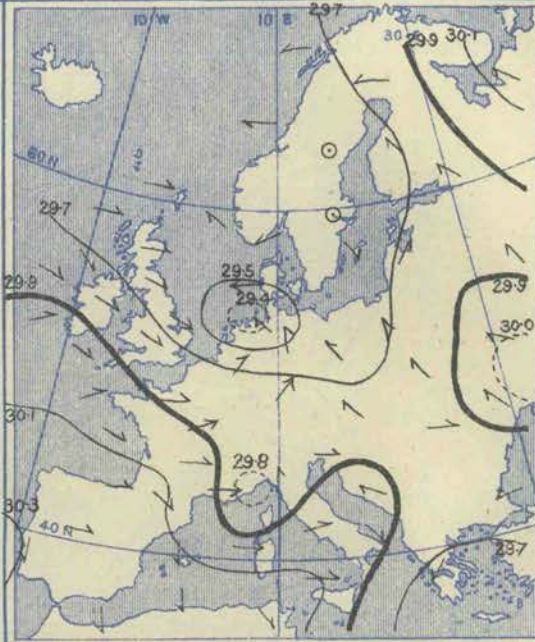
8 a.m.



Wind Westerly or North-Westerly over the United Kingdom, France, and the greater part of southern Europe, and strong to a gale in force on the English coasts; light to fresh from the Southward or South-Eastward over Germany, Denmark, and Russia; Easterly in Scandinavia. Wind moderating later on the English coasts, but veering to South-West or West and increasing in force over Germany.

Barometer highest, 30.3 ins. and upwards, in a large anticyclone over the northern and central parts of Russia, and also in another system over and to the westward of Portugal. Lowest, 29.1 ins. and less in a rather deep cyclonic disturbance with its centre over the southern part of the North Sea, near the Dutch coasts; 29.5 ins. and less in a shallow system with its centre near Memel. Depression over North Sea subsequently moving eastwards to north Germany and partially filling up; barometer rising over western Europe generally.

6 p.m.



Wednesday, 26th March.

Temperature and Weather.

8 a.m.

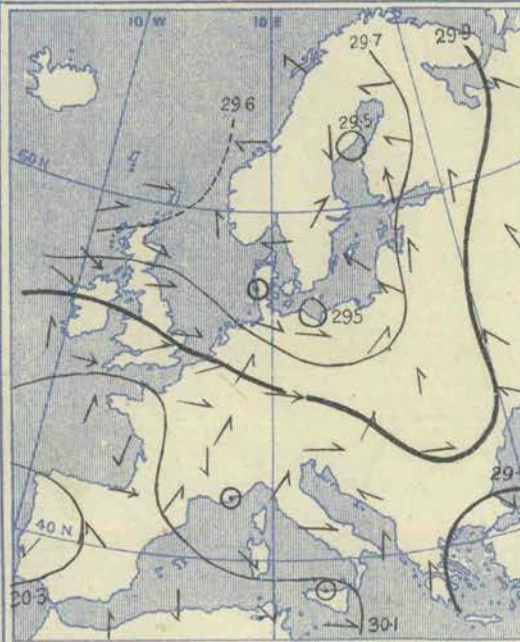


Weather in morning fair or fine over the greater part of the United Kingdom, France, Spain, and the Netherlands, but showery in the west of Ireland; snow falling at Newton Reigny. Fine at many of the Scandinavian and Austrian stations, but cloudy over the northern and central parts of the Continent generally, with rain in several parts of Denmark and Germany, and snow in the north of Sweden, as well as at Cuxhaven. Rain spreading later from the westward over nearly the whole of the United Kingdom and France—amount large at some of our south-western stations.

Temperature fallen over England and France, risen over central and southern Europe, changed very irregularly elsewhere. Morning readings highest, 60° at Barcelona, Palermo, and Algiers, and 59° at Palma; above 50° at most of the Mediterranean, Adriatic, and Spanish coast stations. Lowest, 22° at Karlstad, 24° at Haparanda, 27° at Faerder, and 29° at Hernösand; below 35° at one or two of our own northern stations. Rising during day to 50°, or slightly above it, at several places in the south of England; exceeding 60° in most parts of southern Europe, and reaching 70° at Alicante.

Barometer and Wind.

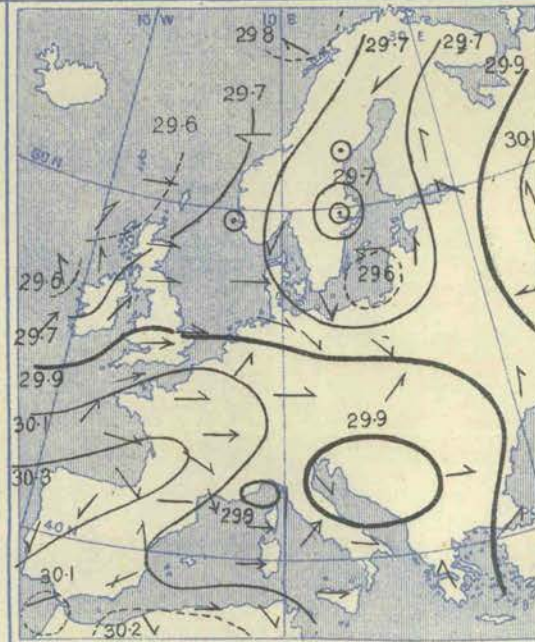
8 a.m.



Wind Westerly over our Islands, the Netherlands, and Germany; light or moderate in force generally, but strong on the Welsh coasts. Southerly or South-Easterly in Russia; Easterly or North-Easterly in Scandinavia and Denmark. Light from the Northward over the central parts of France; Easterly or North-Easterly over the Spanish Peninsula; Southerly or South-Westerly in Italy. Subsequently backing to the South-Westward on our west and south-west coasts and increasing considerably in force.

Barometer highest, 30.3 ins. and upwards, in an anticyclone over Portugal, and the western and central parts of Spain; 30.1 ins. and upwards in another system over Russia. Lowest, 29.5 ins. and less in two depressions—one lying over north Germany, and the other over the southern part of the Gulf of Bothnia; 29.6 ins. and less in a large shallow area lying to the northward of our Islands. New cyclonic disturbance appearing later off the Irish coasts, and barometer falling briskly at all our western stations.

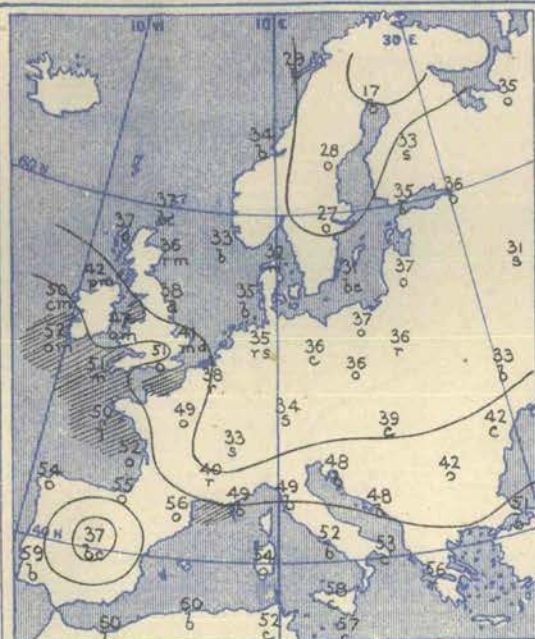
6 p.m.



Thursday, 27th March.

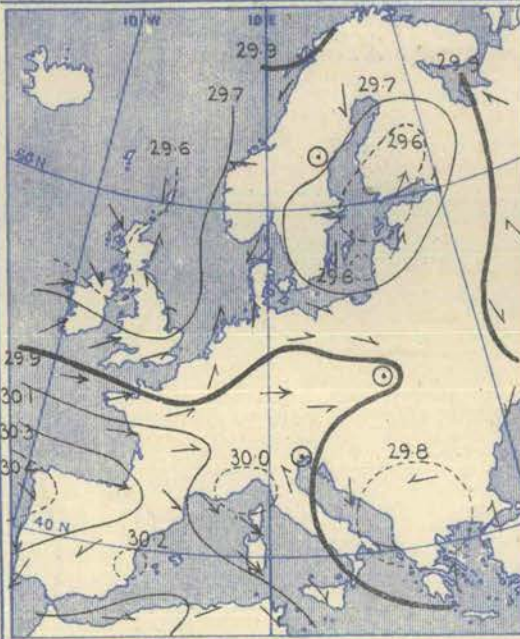
Temperature and Weather.

8 a.m.

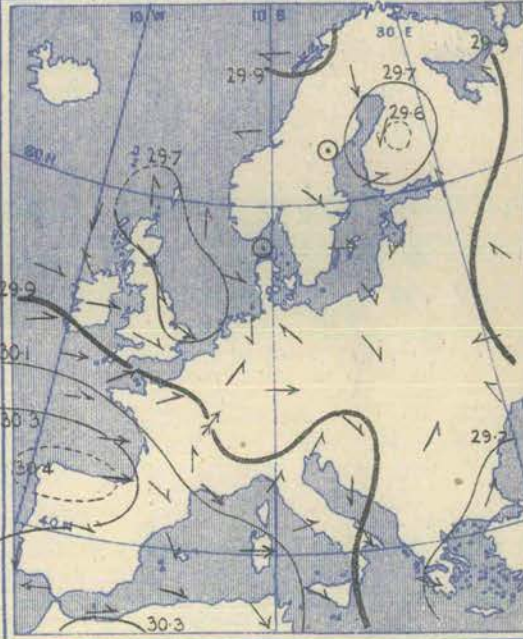


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and unsettled over the greater part of Europe, with rain at several of our own northern stations, as well as in the Netherlands, and some parts of France and Germany; snow falling at some of the Swedish and Russian stations, and also at Cuxhaven, Belfort, and Munich. Fine in the Shetlands and west of Norway, and also over Italy and the Spanish Peninsula. Rain falling later in several parts of our Islands and the Continent. Temperature risen over the United Kingdom and France, but fallen in most other countries. Morning readings highest, 60° at Nemours and Algiers, 59° at Lisbon, and 58° at Barcelona and Palermo; above 55° at most of the Mediterranean and Spanish coast stations, and slightly above 50° at some of our southern stations. Lowest, 17° at Haparanda, 27° at Stockholm, and 28° at Hérnösand; slightly below the freezing point in several parts of Scandinavia and central Russia, and below 40° in Scotland and the north of England. Rising during day to 55° and upwards at several of our own central and southern stations, and to 59° in London and at Oxford and Roche's Point; exceeding 60° over Italy and the south of France; exceeding 70° over the Spanish Peninsula, and reaching 75° at San Fernando.

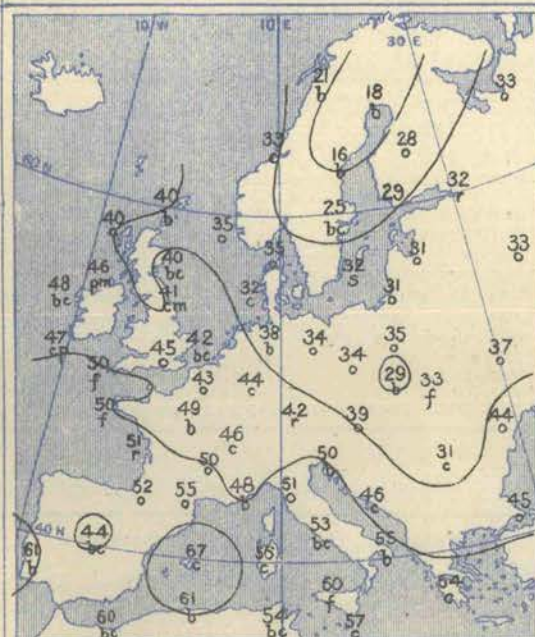
Wind moderate to strong from the Westward or South-Westward over the western and southern parts of the United Kingdom, and also over France and Germany; light from the Southward or South-Eastward over the Netherlands and the eastern parts of Great Britain. Northerly or North-Easterly in Scandinavia; North-Westerly in Denmark; Southerly over the greater part of Russia; North-Easterly over the Spanish Peninsula; Westerly or North-Westerly in Italy. Subsequently veering to the North-Westward on the east coasts of Great Britain; no important change occurring elsewhere.

Barometer highest 30.4 ins. and upwards to 30.2 ins. in an anticyclone lying over Algeria, the Spanish Peninsula, and the south-west of France; 30.0 ins. and upwards in another system over Russia. Lowest, 29.6 ins. and less in two cyclonic areas—one extending from the Atlantic over the west and north of Scotland, the other lying over Finland; 29.8 ins. and less in a large shallow system over south-eastern Europe. Depression off our own northern coasts subsequently moving on to North Sea and partially filling up; barometer rising over the United Kingdom generally.

Friday, 28th March.

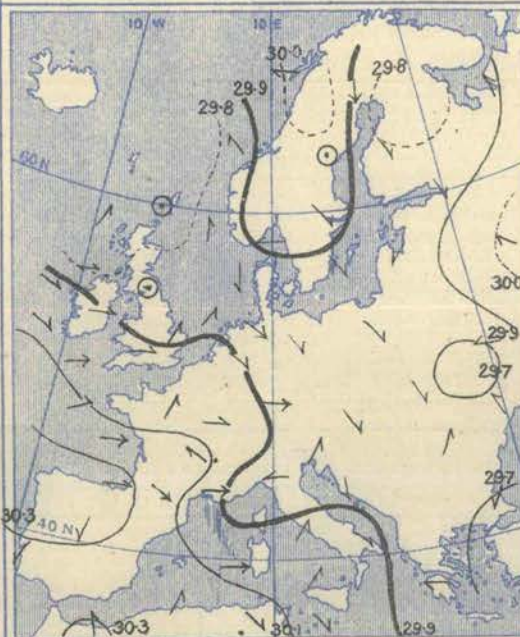
Temperature and Weather.

8 a.m.

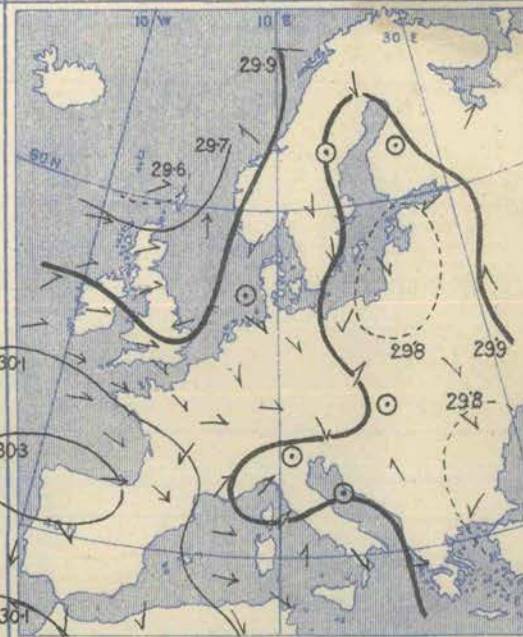


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the north-east of Scotland and in Scandinavia, as well as over the greater part of southern Europe. Cloudy or dull elsewhere, with fog at the mouth of the English Channel, and rain in isolated parts of Ireland, England, France, and Germany; snow reported at Hangö, Wieby, and Swinemünde. Slight rain falling later at most of our own western, northern, and eastern stations, as well as in many parts of France and Germany.

Temperature fallen in the south of our Islands, and also over the northern and central parts of the Continent, risen in most other localities. Morning readings highest, 67° at Palma, 61° at Lisbon and Algiers, and 60° at Barcelona, Palermo, and Nemours; above 50° over southern Europe generally. Lowest, 16° at Hérnösand, 18° at Haparanda, and 21° at Bodö; below the freezing point in most parts of northern Europe, and very little above it in the north of Scotland. Rising during day to between 50° and 55° over the greater part of Ireland and England, and to 57° at Oxford and Parsonstown; exceeding 60° in Italy and the south of France, and exceeding 70° in Spain, the highest reading reported being 75° at Madrid.

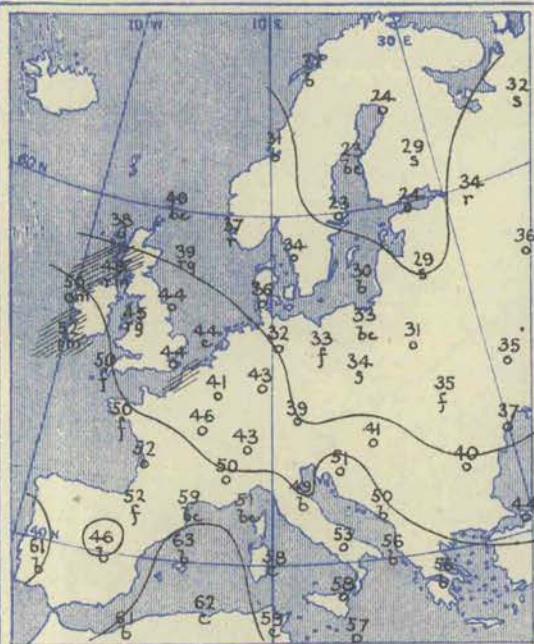
Wind light to fresh from the Westward in all the more western and southern parts of the United Kingdom, and also over the greater part of France; calm over Scotland and the north of England; South-Easterly or Easterly in the west of Norway; Northerly in Finland, Sweden, and Denmark; North-Westerly over Germany and Austria. Variable over Italy and south-eastern Europe; North-Easterly over the Spanish Peninsula. Subsequently backing to the South-Westward in Ireland; no important change occurring elsewhere.

Barometer highest 30.3 ins. and upwards in an anticyclone over the south-west of France, and the northern and central parts of Spain; high 30.0 ins. and upwards over the north of Scandinavia, and also over central Russia. Lowest, 29.7 ins. and less in two shallow cyclonic areas lying respectively over Asia Minor, and over the south-west of Russia; 29.8 ins. and less in another shallow area lying over and to the northward of Scotland. Cyclonic areas over eastern and south-eastern Europe both moving northwards later; disturbance over Scotland becoming more fully developed.

Saturday, 29th March.

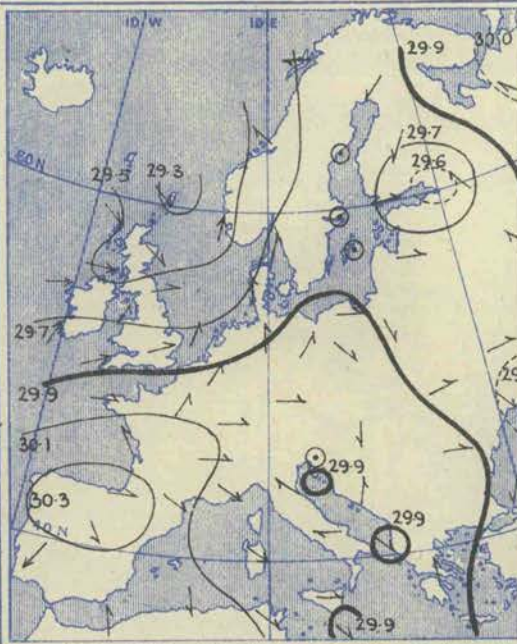
Temperature and Weather.

8 a.m.

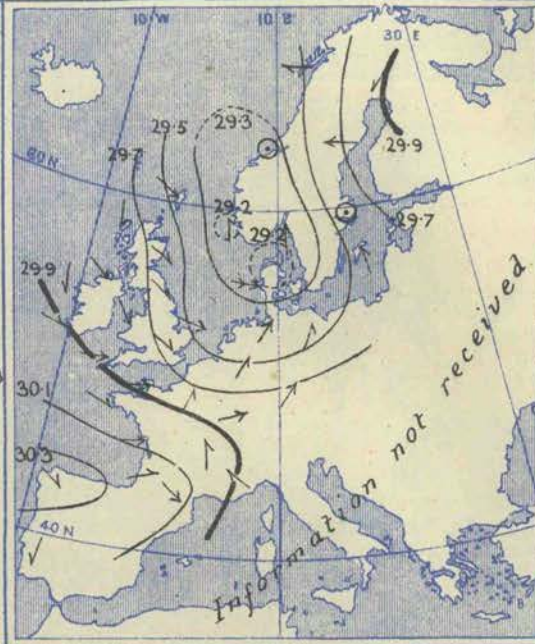


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over southern Europe, as well as at many of the Scandinavian stations. Cloudy or dull elsewhere, with fog over the Channel and the Bay of Biscay, and with rain at many of our own western and northern stations, as well as at Skudesnaes, the Helder, and St. Petersburg; snow falling in several parts of Russia, and also at Memel. Rain falling later in nearly all parts of western and central Europe, and hail or sleet in the north of Scotland.

Temperature changed very irregularly. Morning readings highest, 66° at Oporto, 63° at Barcelona, 62° at Algiers, and 61° at Lisbon and Nemours; above 55° at most of the Mediterranean and Spanish coast stations. Lowest, 23° at Hernösand and Stockholm, 24° at Haparanda, and 26° at Karlstad; below the freezing point in most parts of Scandinavia and northern Russia. Rising during day to 55°, or slightly above it, at several of the English and Irish stations; exceeding 60° in the south of France, and exceeding 70° over the Spanish Peninsula, the highest reading reported being 75° at Lisbon.

Wind South-Westerly or Westerly over the greater part of our Islands, France, Germany, and the Netherlands; light to fresh in force generally, but strong at some of the Irish stations; North-Westerly in the north of Scotland; Southerly in Denmark and the south of Norway; South-Easterly or Easterly in the west of Norway; cyclonic circulation of light winds reported over northern Russia. Variable in Greece and Italy; North-Westerly in the south of France; North-Easterly or Easterly over the Spanish Peninsula. Subsequently veering to the North-Westward over the United Kingdom generally; no important change occurring elsewhere.

Barometer highest 30.3 ins. and upwards in an anticyclone over northern and central Spain; 30.0 ins. and upwards in the extreme north of Russia. Lowest, 29.3 ins. and less in a cyclonic system off the north of Scotland with its centre a little to the north-eastward of the Shetlands; 29.6 ins. and less in another system with its centre near St. Petersburg. Disturbance off the north of Scotland subsequently travelling south-eastwards to Denmark; barometer rising briskly in the northern parts of the United Kingdom.

GENERAL NOTES.

During the greater part of the week an anticyclone of considerable intensity lay over the Spanish peninsula and the neighbouring parts of the Atlantic, while another high-pressure area of more moderate height existed over Russia. Under the influence of the former system the weather in the southern countries was mostly fine and warm, the thermometer rising to 60° and upwards on most days, and occasionally exceeding 70°.

Over western and central Europe the conditions were affected by low-pressure systems which advanced in most cases from the Atlantic, the first of these being a depression of diminishing intensity which lay off the east of Scotland at the beginning of the week, but which afterwards moved slowly northwards and dispersed. On the 24th the centre of a much deeper disturbance advanced steadily eastwards across Ireland and England, and

occasioned gales from between South and West in nearly all parts of those countries, the system afterwards travelling on to north Germany and filling up. Later on two or three large shallow low-pressure areas of a somewhat complex shape passed across our northern districts, while small secondary disturbances were developed further south, the weather being in a very changeable showery state generally, with moderate or fresh winds, mostly from the Westward or South-Westward. At the close of the week a rather deep cyclonic system appeared off the north of Scotland and travelled south-eastwards across the North Sea, the wind in its rear blowing with the force of a slight gale from the North-Westward on many parts of our north and east coasts, with squalls of rain, and in some places of hail or sleet.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 74.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNES	34.8	+ 7.3	40	+ 8	THURCASTON	26.9	+ 1.1	31	+ 1	BOURNEMOUTH	38.1	—	44	—
STRATHPEFFER SPA	40.8	+ 17.2	47	+ 20	MARGATE	24.5	- 6.7	28	- 8	SOUTHPORT	23.6	—	33	—
EDINBURGH	18.5	- 5.3	21	- 7	BROADSTAIRS	—	—	—	—	RHYL	—†	—	—†	—
MORPETH	33.8	—	39	—	EASTBOURNE	37.7	+ 3.2	43	+ 3	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	22.5	—	26	—	BRIGHTON	29.3	- 4.6	34	- 5	ABERDOVEY	33.1†	—	38†	—
YORK	22.4	- 4.2	26	- 4	WORTHING	34.9	—	40	—	TENBY	29.1	- 6.9	33	- 8
LOWESTOFT	23.6	—	27	—	BOGNOR	43.2†	—	50†	—	NEWQUAY	15.1	- 16.4	21	- 19
HOLLESLEY BAY	24.4	—	28	—	WATERGATE	29.5	—	34	—	TORQUAY	25.8	- 9.8	30	- 11
DUNMOW	28.8	—	33	—	WESTBOURNE	30.6†	- 5.1	35†	- 6	CAHIR (Duneske)	—†	—	—†	—
SHEFFIELD	30.6†	—	35	—	VENTNOR HOSPITAL	34.3	- 2.5	39	- 4	GUERNSEY	37.2†	- 0.7	43†	- 1
WORKSOP	26.4	+ 0.9	30	+ 1										

† The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

‡ The corresponding value in last week's report should read "44.2."

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature.						Rainfall.			Bright Sunshine.		
		(In Degrees Fahrenheit.)											
		Highest observed.	Lowest observed.	Averages for the week.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.
Week ending January 4th, 1902.	Colwyn Bay	—	—	—	—	—	—	—	—	—	8.3	—	16
" " 11th "	" " "	—	—	—	—	—	—	—	—	—	8.3	—	—
" " 18th "	" " "	—	—	—	—	—	—	—	—	—	12.4	—	23
" " 25th "	" " "	—	—	—	—	—	—	—	—	—	6.9	—	12
" February 1st "	" " "	—	—	—	—	—	—	—	—	—	17.6	—	29

WEEKLY WEATHER REPORT.

79

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.
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VOL. XIX. No. 14.]
Fourth Series.

WEEK ENDING SATURDAY, APRIL 5TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 74.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH.	52	28	46.0	33.5	39.4	2 below	Day-deg. 11	Day-deg. - 8	Day-deg. 30	Day-deg. + 6	Day-deg. 109	Day-deg. - 16	Day-deg. 541	Day-deg. + 67
	1. SCOTLAND, EAST.	54	25	47.8	32.4	39.7	2 below	16	- 9	35	+ 10	143	- 24	593	+ 64
	2. ENGLAND, N.E.	50	30	49.6	34.7	41.8	1 below	21	- 4	28	+ 8	214	+ 34	436	- 14
	3. ENGLAND, EAST.	61	30	52.7	35.5	43.7	0 (average)	39	+ 6	18	- 3	260	+ 43	431	- 63
	4. MIDLAND COUNTIES	62	27	51.5	36.0	43.4	0 (average)	35	+ 1	17	- 4	285	+ 47	423	- 40
5. ENGLAND, SOUTH.	63	30	51.7	38.8	45.0	0 (average)	34	- 2	9	- 6	273	+ 11	299	- 81	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST.	58	29	48.7	35.8	42.0	1 below	19	- 7	17	- 1	193	+ 10	388	+ 10
	7. ENGLAND, N.W.	58	28	48.4	37.0	42.4	2 below	24	- 3	14	- 2	218	+ 24	352	- 17
	8. ENGLAND, S.W.	59	27	51.2	39.4	45.0	0 (average)	32	- 1	7	- 5	309	+ 24	265	- 27
	9. IRELAND, NORTH.	55	33	48.8	37.7	43.0	1 below	25	- 5	12	- 3	220	- 25	284	- 40
	10. IRELAND, SOUTH.	59	30	51.7	40.2	45.7	0 (average)	33	- 3	5	- 5	339	- 1	203	- 40
-CHANNEL ISLANDS.	55	41	52.0	45.1	48.4	1 above	45	+ 6	0	- 3	442	+ 60	97	- 21	

DISTRICTS. (See p. 74.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH.	6	15	10ths of in. 7 more	74	+ 9	16.1	+ 1.5	43	+ 15	47	+ 17	212	+ 8	23	+ 1	
	1. SCOTLAND, EAST.	5	4	1 less	55	+ 2	5.2	- 2.7	44	+ 15	49	+ 17	234	- 10	25	- 1	
	2. ENGLAND, N.E.	4	4	0 average	45	- 5	4.2	- 1.5	41	+ 11	45	+ 13	236	- 13	23	- 2	
	3. ENGLAND, EAST.	4	7	3 more	46	- 5	4.1	- 1.5	29	- 4	32	- 4	282	- 21	26	- 2	
	4. MIDLAND COUNTIES	5	5	1 more	42	- 6	5.1	- 1.5	26	- 3	29	- 3	219	- 16	24	- 2	
5. ENGLAND, SOUTH.	4	2	2 less	39	- 9	5.1	- 2.0	26	- 10	29	- 11	281	- 21	27	- 2		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST.	6	7	0 average	66	+ 7	14.0	- 0.5	35	+ 4	38	+ 4	206	- 30	22	- 3	
	7. ENGLAND, N.W.	5	8	3 more	58	+ 6	7.4	- 1.0	30	- 1	33	0	243	- 5	25	0	
	8. ENGLAND, S.W.	5	4	2 less	52	- 3	7.9	- 3.1	18	- 20	20	- 22	230	- 51	26	- 5	
	9. IRELAND, NORTH.	6	7	2 more	69	+ 9	9.6	+ 1.0	36	+ 7	40	+ 8	204	- 39	21	- 4	
	10. IRELAND, SOUTH.	5	6	0 average	54	- 5	9.6	- 1.7	28	- 5	31	- 5	245	- 36	25	- 4	
-CHANNEL ISLANDS.	3	2	3 less	54	- 6	6.2	- 2.7	19	- 23	22	- 24	275	- 80	27	- 7		

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather, though mainly fair in the southern districts, was very changeable over the United Kingdom generally, with frequent falls of rain, and occasional snow or sleet at several of the northern and central stations. Thunderstorms occurred at Fort Augustus, Stonyhurst and Llandudno on April 3rd, and at Colly Weston (Stamford) on April 5th. Temperature was slightly below the mean over the northern half of the Kingdom, but agreed very closely with the normal in the central and southern districts. The highest readings occurred, as a rule, on March 31st, when the thermometer rose to 55° and upwards in many parts of England and Ireland, and also in Scotland W., and to slightly above 60° in some land the thermometer did not once reach 50°. The lowest readings, which occurred at various times in the different districts, ranged from 25° in Scotland E. and 27° in the Midland Counties and England S.W., to 33° in Ireland N., and to 41° in the Channel Islands. Rainfall was less than the mean in all the southern districts and also in Scotland E. Elsewhere it was either equal to or in excess of the average, the excess being large in Scotland N. Bright Sunshine was in excess of the mean in Scotland and the northern parts of England

and Ireland, but was deficient in all other districts; in England S.W. and the Channel Islands the total duration was less than half the average. The percentage of the possible amount ranged from 49 in Scotland E. and 47 in Scotland N., to 29 in the Midland Counties and England S., to 22 in the Channel Islands, and to only 20 in England S.W. Barometer and Wind. During the whole week the weather in our Islands was influenced by cyclonic disturbances advancing from the westward. In the earlier part of the time the centres of these systems skirted our northern coasts in an easterly direction, and the prevailing winds were South-Westerly or Westerly. On April 3rd, however, a small secondary disturbance which was formed over our northern districts, moved south-eastwards across the North Sea, and in its rear the wind shifted to the North-Westward, a slight gale from that direction being experienced next day on many parts of our coasts. At the close of the week the centre of a well marked depression travelled eastwards across Ireland and England, the cyclonic circulation over those countries being for a time complete, and the Northerly wind in the rear of the disturbance blowing very strongly on our east and south-east coasts.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
										Inches.	Inches.					
O. SCOTLAND, N	Sumburgh Head	46	28	43.7	32.3	37.7	- 2.3	5	33	6	1.74	+ 1.18	*	*	*	*
	Stornoway	52	30	47.1	33.6	40.0	- 1.5	14	31	5	0.86	+ 0.20	54.0	+ 24.0	59	+ 25
	Wick	50	30	47.0	33.1	39.7	- 1.8	14	32	6	0.34	- 0.08	*	*	*	*
	Lairg	46	31	44.5	32.8	38.4	- 2.2	7	32	7	2.73	+ 1.48	*	*	*	*
	Glencarron	49	31	47.2	33.9	40.2	- 2.0	15	30	6	1.53	+ 0.95	35.6	+ 12.7	39	+ 14
	Fort Augustus	49	31	46.3	35.0	40.4	- 2.4	12	26	7	1.70	+ 0.64	33.3	+ 5.5	37	+ 7
1. SCOTLAND, E	Fort William	49	31	46.3	35.0	40.4	- 2.4	12	26	7	1.70	+ 0.64	33.3	+ 5.5	37	+ 7
	Nairn	52	30	48.0	32.9	40.1	- 2.1	17	34	7	0.40	+ 0.05	*	*	*	*
	Aberdeen	52	31	46.9	34.0	40.1	- 2.1	14	29	5	0.17	- 0.32	50.0	+ 18.0	55	+ 20
	Braemar	47	25	42.8	29.8	36.0	- 2.7	2	41	5	0.50	- 0.04	*	*	*	*
	Ochertyre	53	28	50.7	32.7	41.3	- 1.1	24	36	4	0.20	- 0.35	*	*	*	*
	Leith	54	32	50.9	35.6	42.9	- 0.3	33	18	4	0.56	+ 0.24	*	*	*	*
2. ENGLAND N.E.	Marchmont	53	26	47.6	29.3	33.0	- 3.3	16	45	5	0.52	- 0.02	48.3	+ 19.5	53	+ 21
	Alnwick Castle	56	31	50.3	33.2	41.3	- 0.2	23	33	4	0.13	- 0.36	*	*	*	*
	Durham	54	30	49.1	33.5	40.9	- 1.2	20	32	3	0.22	- 0.22	46.9	+ 19.2	52	+ 21
	Shields	55	32	49.1	34.0	41.2	- 1.2	20	31	3	0.10	- 0.28	*	*	*	*
	Scarborough	56	32	50.3	34.5	42.0	- 0.9	23	21	3	0.18	- 0.22	36.1	—	40	—
	Spurn Head	53	35	49.6	37.6	43.3	+ 0.5	28	12	3	0.77	+ 0.48	*	*	*	*
3. ENGLAND E.	Fulbeck (Lincolnshire)	59	31	48.9	35.5	41.9	- 1	19	25	5	0.87	+ 0.52	*	*	*	*
	Hillington	58	30	52.5	34.7	43.2	-	39	17	4	1.11	+ 0.7	28.3	- 3.3	31	- 4
	Yarmouth	55	33	50.1	36.0	42.7	+ 0.2	30	17	3	0.96	+ 0.57	*	*	*	*
	Geldeston	58	31	53.1	34.2	43.2	- 0.5	41	22	3	0.90	+ 0.55	30.7	- 3.3	34	- 4
	Cambridge	61	31	55.5	34.4	44.5	+ 0.1	49	21	4	0.56	+ 0.23	28.3	- 4.9	31	- 6
	Felixstowe	58	34	51.8	37.7	44.4	+ 0.3	35	12	4	0.26	—	35.1†	—	39†	—
4. MIDLAND COUNTIES	Rothamsted	60	30	53.3	36.0	44.2	+ 0.8	41	17	4	0.26	- 0.17	26.6	- 4.8	30	- 5
	Bawtry (Hesley Hall)	57	31	50.0	36.7	43.0	- 0.7	29	15	4	0.82	+ 0.45	*	*	*	*
	Loughborough	61	32	51.0	36.7	43.5	- 0.8	33	15	5	0.58	+ 0.22	*	*	*	*
	Colly Weston (Stamford)	61	32	52.4	36.6	44.1	- 0.0	37	15	5	0.70	—	*	*	*	*
	Cheadle	58	32	48.7	35.0	41.5	- 1.1	19	27	6	0.89	+ 0.42	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	59	33	50.0	36.4	42.9	- 0.4	30	16	4	0.57	- 0.18	18.4	—	20	—
5. ENGLAND, S.	Churchstoke	57	28	51.0	33.5	41.8	- 0.6	25	33	6	0.51	+ 0.08	25.7	- 5.3	29	- 5
	Hereford	62	28	55.4	36.4	45.4	+ 1.1	47	16	4	0.16	- 0.20	*	*	*	*
	Cirencester	58	27	52.2	35.1	43.2	+ 0.3	37	19	5	0.26	- 0.17	29.4	- 2.9	33	- 2
	Oxford	59	33	53.0	37.9	45.1	+ 0.4	39	11	5	0.26	- 0.10	26.3	- 4.9	29	- 6
	London	61	32	53.4	37.3	45.0	- 0.3	41	13	3	0.21	- 0.15	23.6†	- 1.4†	26†	- 2†
	Swaraton (Alresford)	58	30	51.9	36.7	43.9	-	36	15	3	0.46	+ 0.01	*	*	*	*
6. SCOTLAND, W.	Dungeness	52	34	49.9	33.3	43.8	- 0.2	28	10	2	0.04	- 0.26	26.8	—	30	—
	Hastings (St. Leonards)	55	34	50.8	39.4	44.8	+ 0.3	31	7	3	0.11	- 0.33	26.3	- 10.3	29	- 12
	Southampton	63	35	55.2	39.9	47.2	+ 1.2	45	6	5	0.21	- 0.23	24.5	- 10.5	27	- 12
	Portland Bill	52	39	49.0	42.3	45.5	- 0.7	25	0	6	0.23	—	*	*	*	*
	Shaftesbury	57	34	51.9	37.9	44.6	+ 0.9	35	11	3	0.32	- 0.21	*	*	*	*
	Laudale (Loch Sunart)	50	29	46.7	34.2	40.2	- 3.6	13	29	6	1.35	+ 0.27	*	*	*	*
7. ENGLAND, N.W.	Glasgow	50	33	46.4	35.0	40.4	- 2.3	12	25	6	0.31	- 0.19	33.0	+ 7.6	36	+ 8
	Cally	58	30	52.9	35.9	44.0	+ 0.8	40	17	4	0.44	- 0.21	*	*	*	*
	Douglas (Isle of Man)	52	35	48.9	38.0	43.2	- 0.4	2	11	7	0.61	+ 0.03	36.2	- 0.8	40	0
	Newton Reigny	53	28	47.9	33.6	40.4	- 1.0	17	31	4	0.48	—	37.0	—	41	—
	Stonyhurst	50	38	45.9	35.9	40.7	- 2.2	11	23	6	1.16	+ 0.51	24.9	- 4.9	28	- 5
	Blackpool	50	38	48.2	36.9	42.3	- 1.3	24	14	6	0.57	+ 0.14	35.0	+ 5.0	39	+ 6
8. ENGLAND, S.W.	Manchester (Prestwich)	52	31	47.5	35.4	41.2	- 2.2	15	25	5	1.10	+ 0.62	19.3	—	21	—
	Liverpool Obay. (Bidston)	54	35	48.3	37.9	42.9	- 1.5	24	11	6	1.04	+ 0.68	25.2	—	28	—
	Chester	58	35	51.4	37.9	44.3	- 0.9	33	11	5	0.14	—	*	*	*	*
	Llandudno	53	37	49.6	39.1	44.1	- 1.2	27	8	6	1.09	+ 0.69	27.7	- 3.3	31	- 3
	Holyhead	50	38	48.0	39.1	43.3	- 1.3	21	8	5	0.60	+ 0.14	*	*	*	*
	Llandovery	54	27	50.6	35.3	42.6	- 1.5	32	19	6	0.78	+ 0.10	*	*	*	*
9. IRELAND, N.	Pembroke	49	36	47.9	40.1	43.8	- 0.8	21	5	4	0.28	- 0.18	18.9	- 18.1	21	- 20
	Clifton	55	34	51.2	39.4	45.0	+ 0.3	32	7	6	0.23	- 0.27	*	*	*	*
	Bath	50	31	48.4	37.0	42.4	- 0.7	24	14	6	0.87	+ 0.15	23.5	—	26	—
	Arlington (N. Devon)	59	30	54.1	38.6	46.0	+ 0.3	42	10	6	0.16	- 0.39	20.4	- 12.4	23	- 13
	Cullompton	57	30	52.8	42.7	47.5	+ 1.3	39	0	3	0.14	- 0.55	18.9	- 19.9	21	- 21
	Falmouth	56	38	53.1	42.6	47.6	+ 1.3	39	0	4	0.27	- 0.27	13.8	- 22.4	15	- 25
10. IRELAND, S.	Plymouth	56	38	53.1	42.6	47.6	+ 1.3	39	0	4	0.27	- 0.27	13.8	- 22.4	15	- 25
	Malin Head	48	34	46.1	37.4	41.5	- 2.8	11	17	6	0.48	—	*	*	*	*
	Edenfel (Omagh)	50	33	48.9	36.6	42.5	- 0.3	26	15	6	0.93	+ 0.39	*	*	*	*
	Blacksod Point	51	38	48.4	40.4	44.2	- 1.4	22	4	7	0.82	—	*	*	*	*
	Markree Castle	53	33	49.5	37.6	43.3	- 0.8	28	12	6	0.97	+ 0.38	36.3	+ 6.7	40	+ 8
	Armagh	53	33	50.1	36.7	43.1	- 0.3	30	15	6	0.52	+ 0.05	34.9	+ 6.1	39	+ 8
CHANNEL ISLANDS	Donaghadee	55	34	49.9	37.3	43.3	- 0.9	29	13	4	0.39	- 0.05	*	*	*	*
	Dublin	57	35	51.6	38.9	45.0	- 0.8	34	9	6	0.88	+ 0.43	30.5	- 3.2	34	- 3
	Parsonstown	54	32	50.4	38.1	44.0	- 0.2	30	11	6	0.73	+ 0.23	30.0	- 0.9	33	- 1
	Kilkenny	55	30	51.1	38.7	44.6	- 0.7	32	9	4	0.57	+ 0.07	*	*	*	*
	Roche's Point	59	35	52.6	41.3	46.7	+ 0.3	36	2	4	0.37	- 0.37	*	*	*	*
	Valencia	54	33	50.9	42.1	46.3	- 0.8	30	0	5	0.52	- 0.36	23.8	- 10.8	26	- 12
CHANNEL ISLANDS	Killarney	58	31	55.2	41.3	47.9	+ 1.9	44	2	6	1.00	+ 0.8	*	*	*	*
	Foynes	53	33	50.3	40.8	45.3	- 0.2	28	3	3	0.29	- 0.29	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	42	52.9	45.0	48.8	+ 1.4	48	0	3	0.07	- 0.43	21.4	—	24	—
	Jersey	53	41	51.1	45.1	48.0	+ 0.8	42	0	3	0.31	- 0.16	11.3	- 29.4	13	- 32

Stations marked $\mathcal{H}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 30th March.

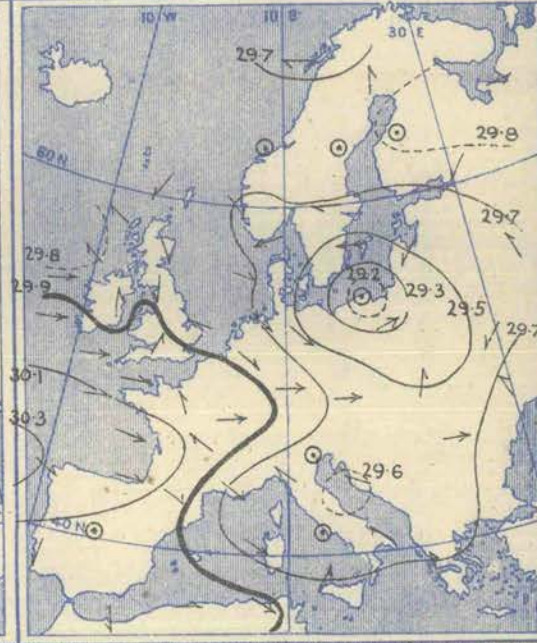
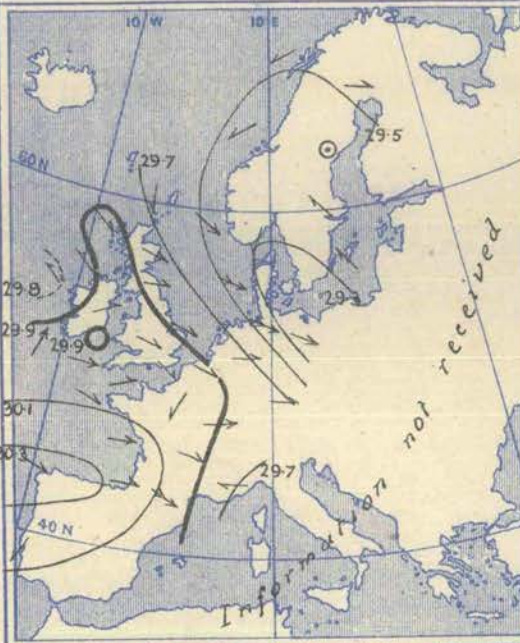
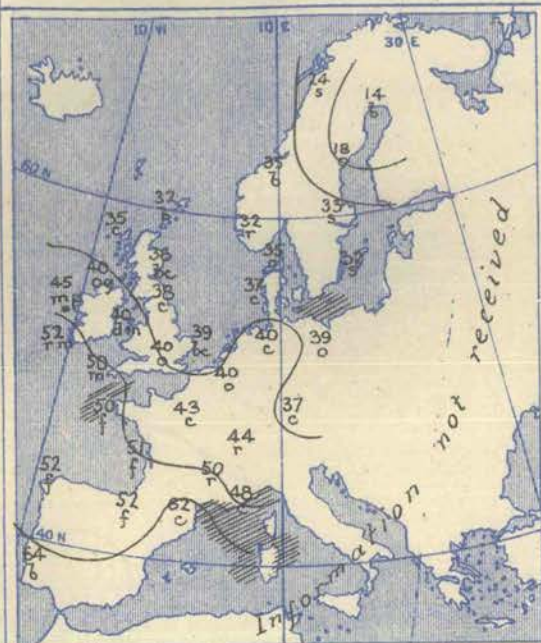
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine on the east coasts of Great Britain, but cloudy or dull over western Europe generally (morning reports from the eastern and southern countries not received). Fog prevailing over the Bay of Biscay, and the western parts of the Channel; rain falling at many of our own western stations, and also over central France, and snow in many parts of Scandinavia. Rain falling during day over western and central Europe generally, but amount mostly small.

Temperature fallen over our Islands, France, and the Netherlands, but risen in Scandinavia, Denmark, and north Germany. Morning readings highest, 64° at Lisbon, 62° at Perpignan, and 52° at Valencia (Ireland), Biarritz, and Corunna. Lowest, 14° at Haparanda, 18° at Hernösand, 24° at Bodö, 30° at Faerder, and 31° at Karlstad; as low as 32° at Sumburgh Head, and below 40° at most of our own northern and central stations. Rising during day to 50° and upwards in the western and central parts of the United Kingdom, and to 59° at Roche's Point; exceeding 65° in the southern parts of France and Italy, and exceeding 75° at several of the Spanish stations, the maximum reading at San Fernan being as high as 84°.

Wind light to fresh from the Westward or North-Westward over the northern and eastern parts of Great Britain, and also over France, Germany, and the Netherlands, and strong to a gale from the same quarters on the eastern shores of the North Sea; rather variable over the central and southern parts of England; light from the South-Eastward in Ireland. Easterly over Sweden and the northern parts of Norway. North-Westerly gales springing up later over north Germany.

Barometer highest 30.3 ins. and upwards over the north of Spain; 30.1 ins. and upwards in an anticyclone covering nearly the whole of the Spanish Peninsula and the west of France; 29.9 ins. and upwards in a ridge extending northwards over the greater part of the United Kingdom. Lowest, 29.3 ins. and less in a cyclonic area over Denmark, north Germany, and the south of Sweden; 29.7 ins. and less in another area over the Gulf of Genoa; 29.8 ins. and less in a shallow disturbance off the west of Ireland. Cyclonic disturbance over Denmark subsequently moving south-eastwards; depression off the west of Ireland advancing slowly north-eastwards.

Monday, 31st March.

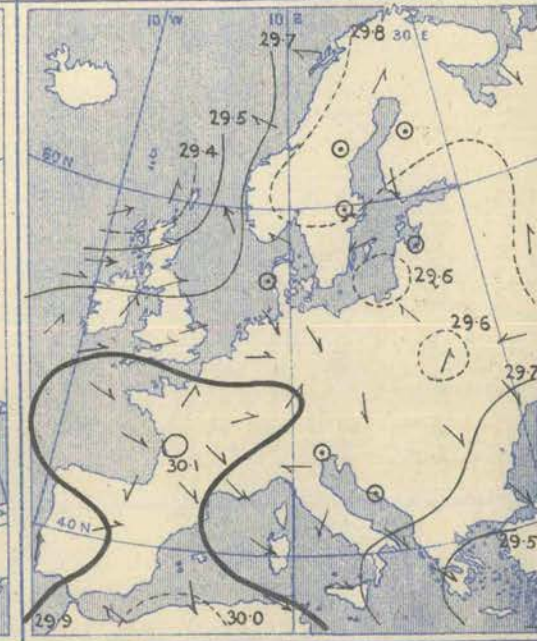
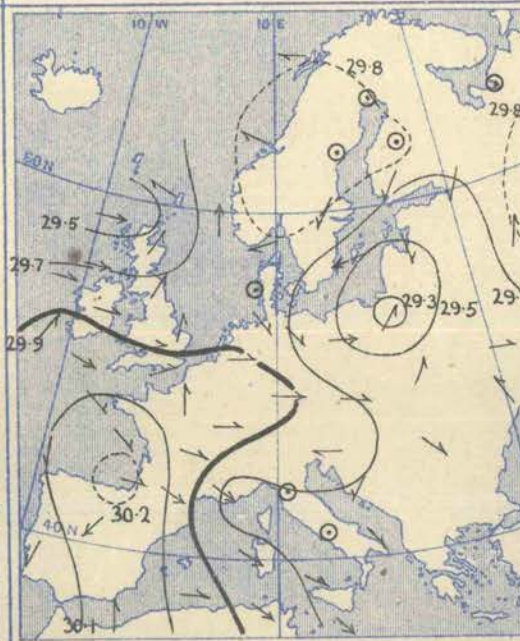
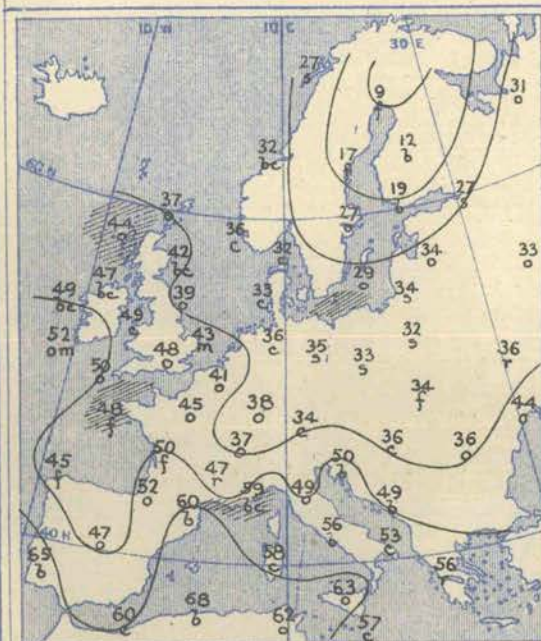
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with fog in the Straits of Dover, and on the north and west coasts of France, as well as in the Gulf of Bothnia; rain falling in some parts of central France, and snow at many of the German stations, as well as at Bodö and St. Petersburg. Fine in the north of Ireland and the east of Scotland, and also over the greater part of southern Europe. Slight rain falling later in most of the western countries; sky clearing in most parts of northern Europe.

Temperature risen in our Islands, but fallen at most of the Continental stations. Morning readings highest, 68° at Algiers, 66° at Barcelona, 65° at Lisbon, and 64° at San Fernando; above 55° at the Mediterranean and Spanish coast stations generally. Lowest, 9° at Haparanda, 12° at Kuopio, 17° at Hernösand, and 19° at Hangö; below the freezing point in most parts of northern Europe. Rising during day to between 55° and 60° at most of our own central and southern stations, and to 61° in London and at Loughborough; exceeding 65° in many parts of Italy and the south of France, and exceeding 80° over the Spanish Peninsula, the highest reading reported being 84° at Oporto.

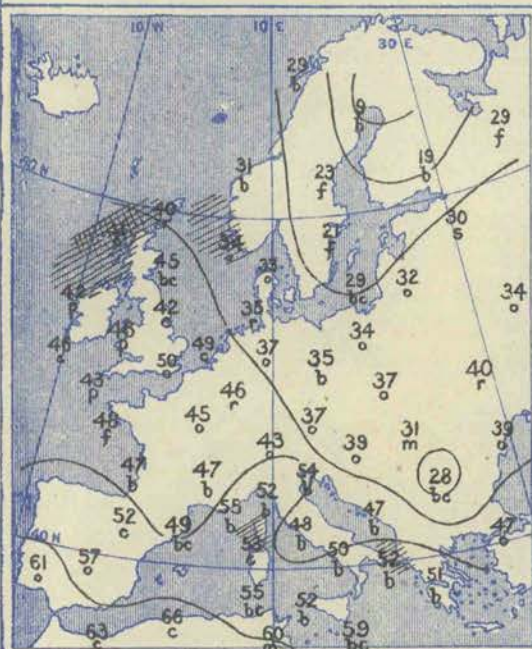
Wind in morning moderate to fresh from the Westward or South-Westward over the greater part of the United Kingdom and its immediate vicinity, and Easterly in the west of Norway and the Shetlands; a complete cyclonic circulation of light to fresh or strong winds over the eastern regions of central Europe, and light to strong North-Westerly winds over the central parts of the Mediterranean and the Gulfs of Lyons and Genoa. Light or moderate anticyclonic breezes in Spain and the west of France. Not much change as a whole during day, but Westerly wind increasing in force on our north-west coasts.

Barometer at 8 a.m. highest, 30.2 ins. and upwards in the centre of an anticyclone lying over the north-east of Spain, and the adjacent portions of France and the Bay of Biscay; as high as 29.9 ins. and upwards over the Black Sea, and above 29.8 ins. in a cyclonic system over Scandinavia. Lowest, 29.3 ins. to 29.6 ins. in a large disturbance with its centre over east Prussia; 29.5 ins. and less in two other areas lying respectively over our extreme northern coasts and the Balkan Peninsula. Anticyclone giving way later, and Prussian disturbance beginning to fill up, but that over our northern coasts becoming deeper.

Tuesday, 1st April.

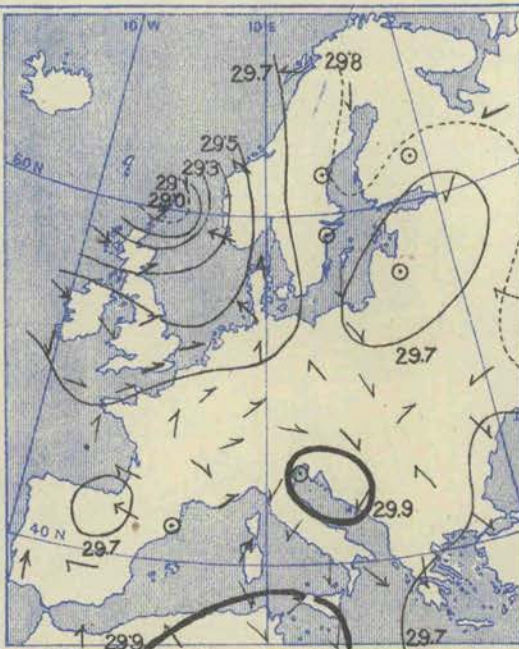
Temperature and Weather.

8 a.m.

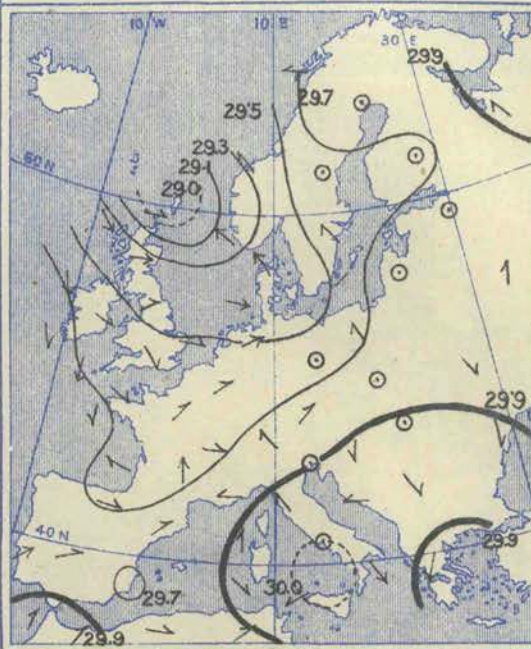


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright over Algeria, Italy, the south of France, the extreme south-east of Europe, and at several Scandinavian stations; cloudy or dull elsewhere, with rain in some parts of our Islands and the south of Russia, and snow at Cracow and St. Petersburg. Fog prevailing in the Gulf of Bothnia, and at Brest. Rain falling during day over the west and north of our Islands, and at some Spanish and German stations, and some snow over northern Europe. Sky continuing clear over Italy.

Temperature in morning highest, 66° at Algiers, 64° at Barcelona, 63° at Oporto and Oran, and above 50° in most parts of southern Europe. Lowest, 9° at Haparanda, 19° at Kuopio, and below 32° at most Scandinavian and Russian stations, as well as at some in central Europe. Rising during day to 56° in London, 50° at Frankfurt, 66° at Nice, 73° at Marseilles, 75° at Limoges, 84° at San Fernando, and 88° at Algiers. Remaining below 32° in extreme north, and not exceeding 37° at Lemberg, Neufahrwasser, and Memel.

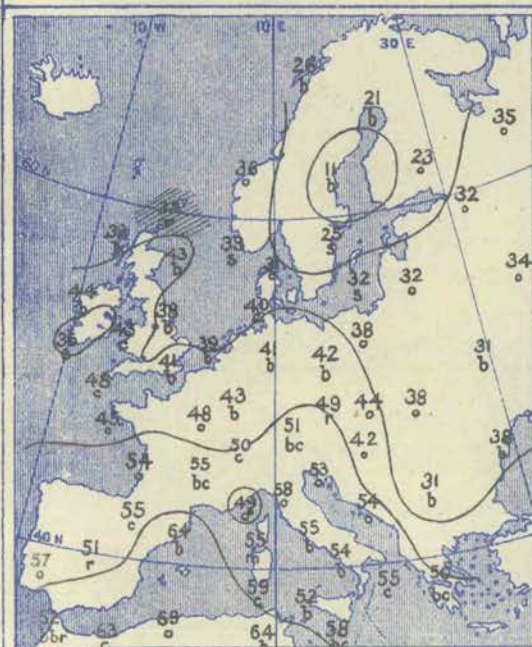
Wind at 8 a.m. strong from North-West or West, on our north-west coasts, and fresh from North in the south of Ireland; moderate from the South-Westward in most other parts of our Islands, the north of France, and the Netherlands, and fresh or strong from South-East on the eastern shores of the North Sea. Light and rather variable in most other regions, but strong from North-West at Brindisi and Cagliari. Wind veering over the United Kingdom and its neighbourhood later, and increasing to a whole gale from North-West at Wick; no material change elsewhere.

Barometer in morning highest (1) 29.9 ins. in the south-west of Austria; (2) over the east of Algeria; 29.8 ins. to 29.9 over north-eastern Europe. Lowest, 29.0 ins. and less in a disturbance over the Shetlands; 29.6 ins. and less in a small minimum near Bilbao; below 29.7 ins. in a shallow system over the Baltic Provinces. Shetland depression moving slowly eastwards during day and increasing in depth, that near Bilbao travelling north-eastwards. Other disturbances dispersing, but a new one appearing near Alicante. Barometer rising decidedly on our north-west coasts.

Wednesday, 2nd April.

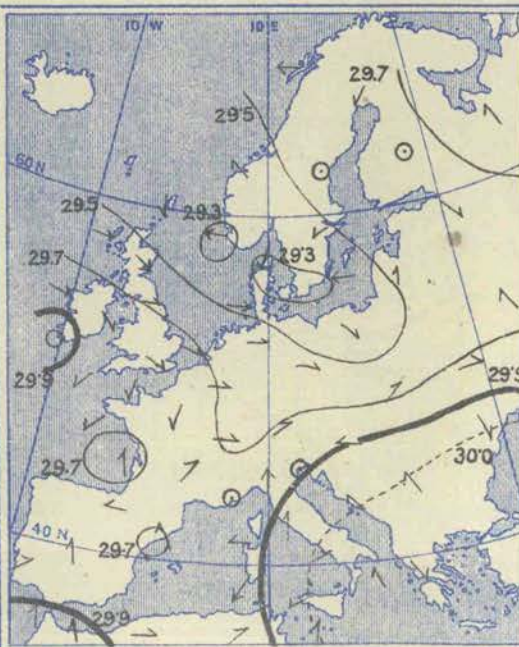
Temperature and Weather.

8 a.m.

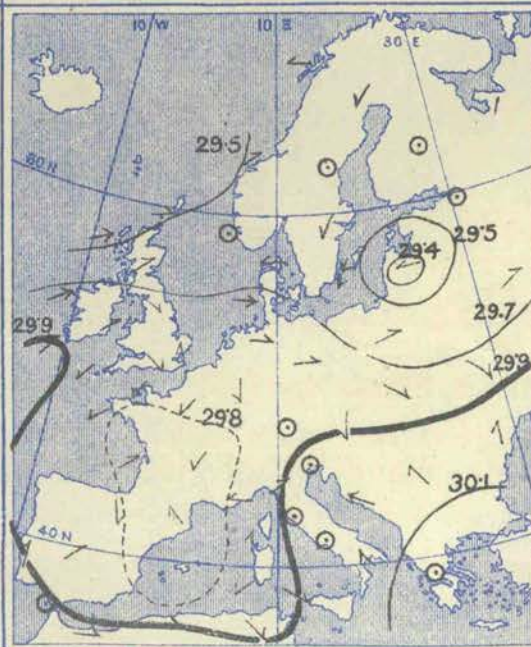


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in most parts of the United Kingdom and at several stations in southern Europe; cloudy or dull elsewhere, with rain at Madrid, different parts of Germany and Austria, and at Sumburgh Head, and with snow in the south of Scandinavia. A thunderstorm reported to be prevailing at San Fernando. Rain falling during day over the north and west of our Islands, central and southern France, the north of Italy and at several stations in central Europe, and heavy snow at Riga and Wisby.

Temperature fallen over the United Kingdom, risen in most continental regions. 8 a.m. readings highest, 60° at Algiers, 64° at La Calle and Barcelona, and considerably above 50° at nearly all the Mediterranean, Adriatic and Spanish stations. Lowest, 11° at Haparanda, 21° at Haparanda, and below the freezing point in nearly all parts of Scandinavia and Finland. Lowest in our Islands, 36° at Valencia. Maxima during day 59°, or a little higher, at some of our own stations, 57° at Paris, 69° at Gap, 72° at Marseilles, 68° at Madrid, 75° at Palermo 77° at Algiers and 84° at Tunis and Sfax.

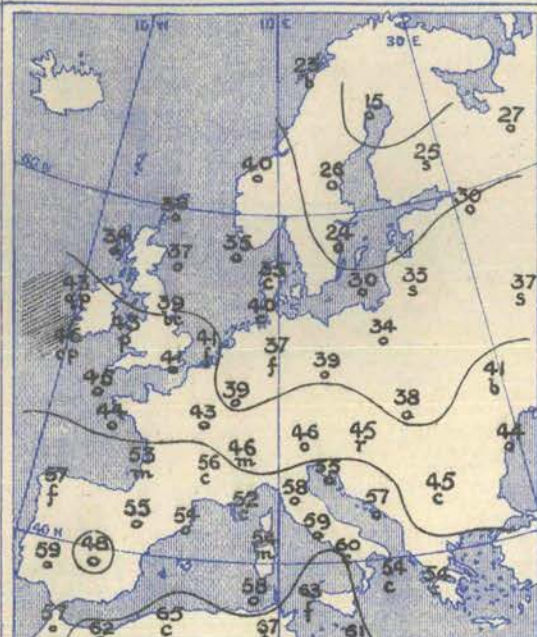
Wind moderate to fresh from West or North-West over the greater part of our Islands, but drawing into North-East in the south-west. Westerly or South-Westerly over Germany; Southerly at Riga, and fresh or strong from East over Scandinavia. Light and variable over southern Europe generally, but Southerly or South-Easterly in the Spanish Peninsula, and moderate from South in northern Italy. Wind backing to South or South-West on our western and northern coasts by evening; veering to North-North-East at Wisby, and blowing a fresh gale, but Easterly wind over Scandinavia dying out generally.

Barometer risen over our Islands and southern and south-eastern Europe; fallen elsewhere. Readings at 8 a.m. highest, 29.9 ins. and upwards over the Black Sea, Turkey, Greece and southern Italy; as high as 29.9 ins. (1) in the south of Ireland, and (2) over the south of Spain and its neighbourhood. Lowest, 29.3 ins. and less in an elongated area with two distinct minima lying over the south of Sweden, the north of Denmark, and the south-west of Norway; as low as 29.7 ins. in another system over the Bay of Biscay. Northern low pressure system moving eastwards later, and becoming less complex.

Thursday, 3rd April.

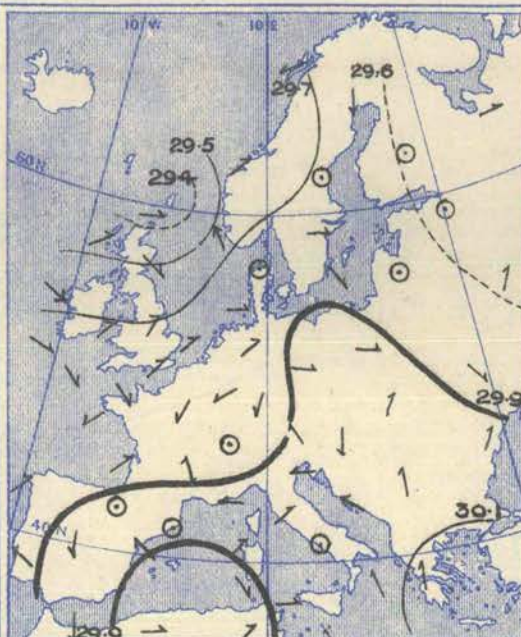
Temperature and Weather.

8 a.m.

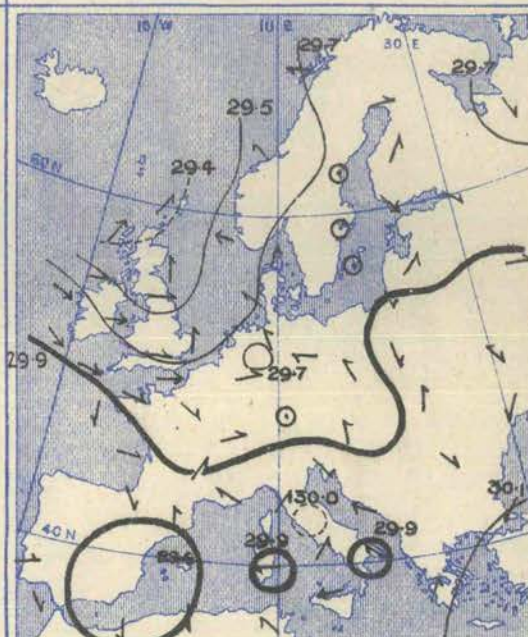


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent; fog reported at some of our own southern and eastern stations, passing showers on our west coasts, and steady rain at Leit., as well as at Turin and Vienna; snow falling in several parts of Russia and the south of Sweden. Showers occurring during day in nearly all parts of the United Kingdom, with sleet or hail in the north; rain falling in Denmark and Germany.

Temperature fallen in Scotland and the north of Ireland, as well as in Germany and the Netherlands, risen on the eastern shores of the North Sea; changed irregularly elsewhere. Morning readings highest, 67° at La Calle, 65° at Algiers, 64° at Stax, and 63° at Palermo, above 55° at most of the Mediterranean, Adriatic and Spanish coast stations. Lowest, 15° at Haparanda, 19° at Hernösand and 23° at Hangö; below the freezing point over northern Europe generally, and very little above it in the Shetlands and Hebrides. Rising during day to between 50° and 54° over England; exceeding 60° over southern Europe, and reaching 70° at Madrid, Naples and Palermo.

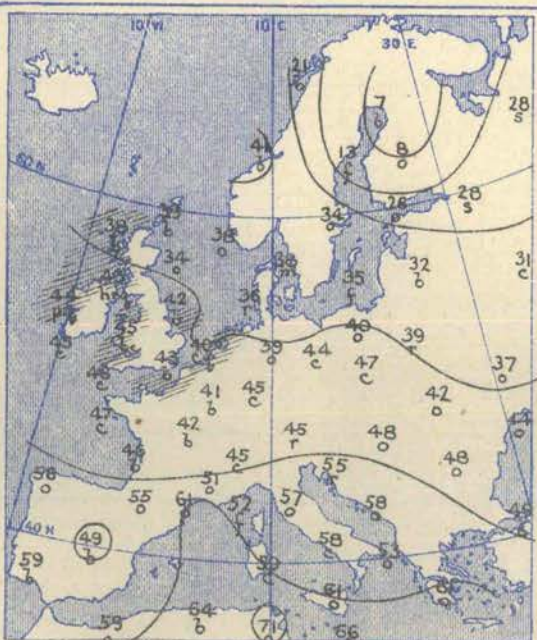
Wind light to moderate from the Westward or South-Westward over the greater part of our Islands and also over Denmark and Germany. Light and variable over France and southern Europe; Northerly or North-Westerly in Finland; Southerly over the central and southern parts of Russia; variable in Scandinavia. Subsequently veering to the North-Westward on our own western coasts, and blowing very strongly, with a slight gale in places.

Barometer highest, 30.1 ins. and upwards over Turkey and the eastern parts of the Mediterranean. Lowest, 29.4 ins. and less in a cyclonic system off the north of Scotland; 29.6 ins. and less in a large area over northern and central Russia; 29.9 ins. and less in another large area over Algeria and the western parts of the Mediterranean. Depression off north of Scotland remaining stationary throughout day, but secondary disturbance moving eastwards across the northern parts of Great Britain.

Friday, 4th April.

Temperature and Weather.

8 a.m.

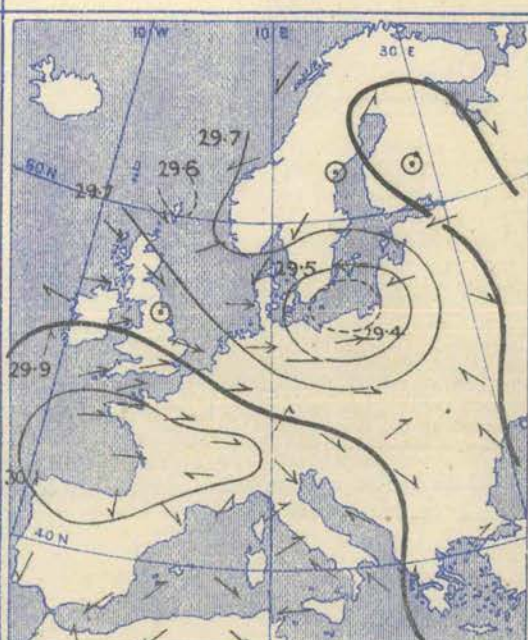


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of the United Kingdom, and the neighbouring portions of the Continent, but showery in the north of Ireland. Fine also in Spain and in the north of Scandinavia, but cloudy in most of the Continental countries, with fog in Sweden, and also in the extreme south of France, rain at some of the Danish stations, and snow at Archangel and St. Petersburg. Rain falling later in all the more western, northern, and central parts of the United Kingdom, and also in Portugal.

Temperature risen in our Islands, and also over Norway, Germany, and the Netherlands, fallen in most other countries. Morning readings highest, 71° at Tunis, 60° at Malta and Stax, and 64° at Algiers; above 55° in most parts of southern Europe. Lowest, 7° at Haparanda, 8° at Kuopio, 10° at Uleaborg, and 21° at Bodö; below the freezing point over Scandinavia and northern and central Russia generally, and very little above it in the east of Scotland. Rising during day to 50°, or slightly above it, in most parts of England, Ireland, and the south of Scotland; exceeding 70° in many parts of southern Europe.

Wind Westerly or North-Westerly over our Islands and the neighbouring parts of the Continent, and strong to a gale in force on many parts of our coasts; South-Westerly in Germany; South-Easterly or Easterly over northern Europe. Light and variable in most of the southern countries. Wind subsequently moderating in all parts of the United Kingdom and backing to the Southward in Ireland; veering to the Westward in north Germany, and increasing in strength.

Barometer highest, 30.1 ins. and upwards in an anticyclone lying over the Bay of Biscay, the west of France, and the northern and central parts of Spain; 30.0 ins. and upwards in another system over south-eastern Europe. Lowest, 29.5 ins. and less in a large and rather complex cyclonic area lying over Denmark, the North Sea and the neighbouring parts of Scotland and Norway. Low pressure system subsequently breaking into two portions—one passing away to the northward and growing shallower, the other moving eastwards across the Baltic, and becoming deeper. New cyclonic disturbance approaching the Irish coasts in evening.

Saturday, 5th April.

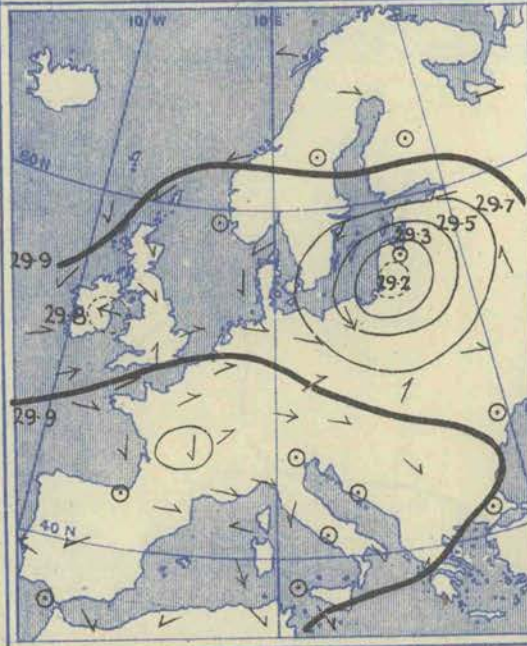
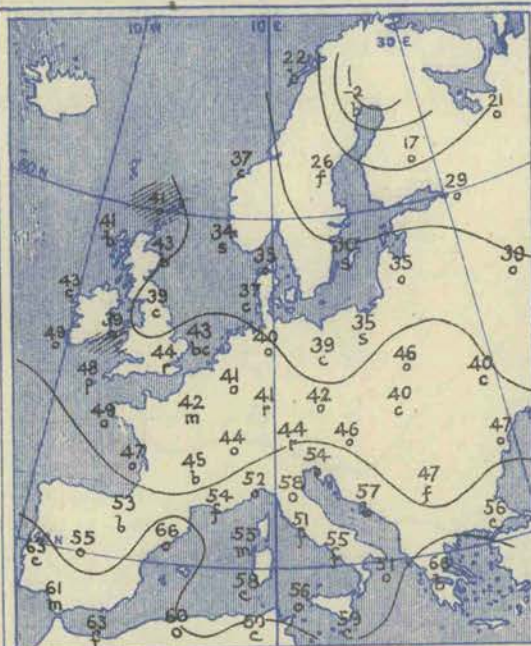
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in the northern parts of the United Kingdom, and also in the north of Scandinavia. Cloudy or dull, with rain at several of our own central and southern stations, and snow at Liverpool; rain falling also over western and southern Germany, and snow at Wisby and Memel. Decided improvement taking place later in the west of our Islands, and also in France, but rain falling in most other parts of western Europe, and snow over central England. Thunderstorm reported at Biarritz in evening.

Temperature risen in Scotland, and also in the south of our Islands, and the neighbouring parts of the Continent, fallen in most other localities. Morning readings highest, 66° at Barcelona and Patras, and 63° at Alicante, Lisbon, and Oran; above 55° at most of the Mediterranean and Spanish coast stations. Lowest, -2° Fahr. at Haparanda, +8° at Uleaborg, 17° at Kuopio, and 21° at Archangel; below the freezing point in most parts of northern Europe, and very little above it at some stations in the north of England. Rising during day to 50° and upwards at several of our own stations, and to 55° at Oxford and Sicily; exceeding 60° over the Spanish Peninsula and the south of France, and reaching 71° at Perpignan.

Wind moderate to fresh from the Westward or South-Westward over the South of our Islands and the neighbouring parts of the Continent, but Easterly or South-Easterly in the north-west of England, and Northerly or North-Easterly in Scotland and the north of Ireland. Easterly or North-Easterly over Scandinavia and northern Russia; North-Westerly over the Baltic; Westerly or South-Westerly in Germany and Austria; Southerly over central Russia. Subsequently veering to the Northward on our own south-west coasts; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards over central France; 30.0 ins. and upwards in an anticyclone lying over nearly the whole of Spain, France, Germany and Austria; 29.9 ins. and upwards in a large area extending from the Atlantic over the Hebrides and the northern parts of Scandinavia and Russia. Lowest, 29.2 ins. and less in a deep cyclonic system with its centre over the Baltic Provinces; 29.8 ins. and less in a shallower disturbance with its centre over the St. George's Channel. Both disturbances moving eastwards later, the system over our Islands becoming deeper in its passage across England.

GENERAL NOTES.

At the commencement of the week an anticyclone lay over Spain, the Bay of Biscay, and the west of France, while the centre of a deep cyclonic system was situated over Eastern Germany, the North-Westerly winds blowing with the force of a gale in Denmark and North Germany.

On March 31st the pressure systems, both high and low, moved eastwards and dispersed, and for the remainder of the week the distribution over Europe generally was rather complex. The highest barometer readings were found as a rule over some portion of the southern or south-eastern countries, while the lowest were found in a series of cyclonic disturbances of no great depth which skirted the north of Scotland, the low-pressure systems afterwards moving

away to the north-eastward. The prevailing winds over Western Europe were therefore mainly Westerly or South-Westerly and the weather changeable and showery, with temperatures differing but little from the normal. On April 3rd, however, a shallow secondary cyclone was developed over our northern districts, the system afterwards moving across the North Sea and the Baltic and growing much deeper; in its rear the wind in our islands veered temporarily to the North Westward, with colder weather. At the close of the week a new disturbance of moderate but increasing depth advanced eastwards across Ireland and England, its progress being attended by heavy rain at our eastern and snow at several of our northern stations.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 80.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNES	42.5	+ 12.1	46	+ 13	THURCASTON	23.7	- 4.1	26	- 5	BOURNEMOUTH	34.0	—	38	—
STRATHPEFFER SPA	47.5	+ 19.9	52	+ 22	MARGATE	20.3	- 12.3	23	- 13	SOUTHPORT	34.2	—	38	—
EDINBURGH	34.8	+ 9.1	38	+ 16	BROADSTAIRS	22.9	—	25	—	RHYL	—†	—	—†	—
MORPETH	51.1	—	56	—	EASTBOURNE	27.0	- 8.4	30	- 10	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	37.3	—	41	—	BRIGHTON	25.0	- 10.7	28	- 12	ABERDOVEY	36.1†	—	40†	—
YORK	31.8	+ 3.8	35	+ 4	WORTHING	26.2	—	29	—	TENBY	17.6	- 20.9	20	- 23
LOWESTOFT	33.1	—	37	—	BOGNOR	34.7†	—	39†	—	NEWQUAY	10.5	- 26.3	12	- 29
HOLLESLEY BAY	23.2	—	31	—	WATERGATE	24.0	—	27	—	TORQUAY	19.0	- 18.7	21	- 20
DUNMOW	22.5	—	25	—	WESTBOURNE	27.5†	- 10.4	31†	- 11	GUERNSEY	25.0†	- 15.5	28†	- 17
SHEFFIELD	29.3	—	33	—	VENTNOR HOSPITAL	23.0	- 15.8	26	- 17					
WORKSOP	29.1	+ 2.2	32	+ 2										

† The values at Bognor, Westbourne, Rhyl, Aberdovey, Cahir, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)					Rainfall.			Bright Sunshine.		
		Highest observed.	Lowest observed.	Averages for the week.		Difference of Daily Average from the Mean for the Week.	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.
				Of Highest each day.	Of Lowest each day.							
Week ending March 22nd, 1902.	Bath	58	—	53.9	—	47.4	+ 5.0	41	2	2	0.22	—
" " 29th "	Hillington	56	27	51.3	34.3	42.5	- 0.8	16	30	5	0.50	+ 0.11
" " " "	Churchstoke	56	28	47.0	35.2	40.9	- 0.6	14	26	5	0.60	+ 0.17
" " " "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—
" " " "	Bath	58	27	52.1	35.0	43.3	- 0.2	39	20	2	0.72	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 15.]
Fourth Series.

WEEK ENDING SATURDAY, APRIL 12TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 86.)		Temperature of the Air.														
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.								
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.				
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	25	46.6	31.4	38.6	4 below	Day-deg. 13	Day-deg. - 9	Day-deg. 38	Day-deg. +17	Day-deg. 122	Day-deg. - 25	Day-deg. 579	Day-deg. + 84	
	1. SCOTLAND, EAST	60	21	47.3	30.8	38.7	4 below	15	- 14	40	+19	158	- 38	633	+ 83	
	2. ENGLAND, N.E.	51	25	46.1	32.5	39.5	4 below	11	- 16	31	+15	225	+ 18	467	+ 1	
	3. ENGLAND, EAST	54	27	46.6	34.4	40.2	5 below	13	- 23	28	+11	273	+ 20	459	- 52	
	4. MIDLAND COUNTIES	52	26	47.2	32.3	39.4	5 below	15	- 23	35	+17	298*	+ 23	459*	- 56	
5. ENGLAND, SOUTH	54	27	48.0	35.8	41.6	4 below	17	- 23	24	+13	290	- 12	323	- 68		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	21	49.7	31.8	40.3	4 below	22	- 8	38	+23	215	+ 2	426	+ 33	
	7. ENGLAND, N.W.	53	25	47.4	33.0	39.9	5 below	15	- 16	33	+20	233	+ 8	385	+ 3	
	8. ENGLAND, S.W.	56	27	49.4	34.7	41.7	4 below	21	- 16	28	+19	330	+ 8	293	- 8	
	9. IRELAND, NORTH	56	25	49.6	34.8	41.9	3 below	21	- 13	28	+16	241	- 38	312	- 24	
	10. IRELAND, SOUTH	56	28	50.2	35.3	42.4	4 below	31	- 9	19	+11	370	- 10	222	- 29	
	-CHANNEL ISLANDS-	56	37	51.0	41.4	46.0	2 below	31	- 12	2	0	473	+ 48	99	- 21	
DISTRICTS. (See p. 86.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 4	10ths of in. 2 less	78	+ 8	16.5	+ 1.2	29	- 2	31	- 1	241	+ 7	24	+ 1
	1. SCOTLAND, EAST	2	4	0 average	57	+ 1	5.6	- 2.8	32	+ 1	33	+ 1	266	- 8	26	- 1
	2. ENGLAND, N.E.	2	1	3 less	47	- 6	4.3	- 1.8	33	+ 1	35	+ 1	269	- 12	24	- 1
	3. ENGLAND, EAST	2	1	3 less	48	- 7	4.2	- 1.8	30	- 9	32	- 9	312	- 30	26	- 3
	4. MIDLAND COUNTIES	2	1	3 less	45*	- 6	5.2	- 1.8	25	- 3	27	- 3	244	- 19	25	- 2
5. ENGLAND, SOUTH	1	2	3 less	40	- 11	5.3	- 2.2	38	- 2	40	- 2	319	- 23	28	- 2	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	4	3 less	68	+ 6	14.4	- 0.7	33	- 1	35	- 1	239	- 30	23	- 3
	7. ENGLAND, N.W.	1	1	3 less	59	+ 3	7.5	- 1.3	46	+15	49	+16	289	+ 11	27	+ 1
	8. ENGLAND, S.W.	0	less than half	5 less	52	- 7	7.9	- 3.7	40	+ 2	43	+ 2	290	- 48	27	- 5
	9. IRELAND, NORTH	2	2	3 less	71	+ 7	9.8	+ 0.7	47	+15	50	+16	251	- 24	24	- 2
	10. IRELAND, SOUTH	3	3	4 less	57	- 5	9.9	- 2.0	39	+ 4	42	+ 5	284	- 31	27	- 3
- CHANNEL ISLANDS-		2	6	1 more	56	- 7	6.8	- 2.6	42	+ 4	45	+ 3	317	- 76	29	- 6

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., Ireland S., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was generally fine and dry, the only rain experienced being confined to the last day or two. At Cally (Gatehouse) a thunderstorm, accompanied by hail, occurred on Saturday night.

Temperature was below the mean, the deficit ranging from 2° in the Channel Islands and 3° in Ireland N., to 4° or 5° in other districts. The highest of the maxima were recorded on rather irregular dates; they ranged from 60° in Scotland E. and 57° in Scotland W., to 52° in the Midland Counties and to 51° in England N.E. Over the major portion of Great Britain the daily maxima were generally below 50°. The lowest of the minima were registered, as a rule, about the middle of the period, and varied from 21° in Scotland E. and W., to 28° in Ireland S., and 37° in the Channel Islands.

Rainfall was less than the mean over the Kingdom as a whole, but it just equalled it in Scotland E., and (owing to a heavy fall on Friday) slightly exceeded the normal in the Channel Islands.

Bright Sunshine varied a good deal in different parts of the Kingdom, but was in excess of the mean in most of the western and northern districts. The percentage of the possible duration ranged from 50 in Ireland N. and 49 in England N.W., to 31 in Scotland N., and to 27 in the Midland Counties.

Barometer and Wind. At the commencement of the week the barometer over our Islands was rising in the rear of a disturbance which had passed eastwards. This increase of pressure continued and the distribution soon became anticyclonic, and the winds North-Easterly or Easterly. The latter were first light in force, but towards the end of the period a decided decrease of pressure taking place over Spain and France and extending northwards to England, produced strong winds or moderate gales on our south and south-east coasts. At the close of the week a secondary depression was observed in the extreme north-west; this caused a decided increase in the gradient over Scotland, and a considerable increase in the force of the Easterly wind in the north and north-east of that country.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
											Inches.	Inches.				
O. SCOTLAND, N	Sumburgh Head	49	32	45.3	34.0	39.4	- 1.4	9	29	5	0.30	- 0.20	*	*	*	*
	Stornoway	51	28	47.9	32.3	39.7	- 2.7	17	35	4	0.43	- 0.19	43.4	+ 9.3	45	+ 9
	Wick	49	27	46.4	30.7	38.2	- 4.2	12	40	2	0.62	+ 0.22	*	*	*	*
	Lairg	50	27	44.9	29.9	37.0	- 4.7	8	42	3	0.35	- 0.78	*	*	*	*
	Glencarron	53	25	47.5	30.1	38.4	- 5.0	15	43	4	0.27	- 0.27	19.5	- 5.7	21	- 5
	Fort Augustus	53	28	47.4	31.3	39.0	- 5.0	15	39	3	0.28	- 0.66	27.8	- 2.4	29	- 2
1. SCOTLAND, E	Fort William	54	25	47.6	30.1	38.4	- 4.8	16	42	4	0.35	+ 0.02	*	*	*	*
	Nairn	49	30	47.0	32.7	39.5	- 3.7	14	34	2	0.64	+ 0.16	36.5	+ 2.5	38	+ 2
	Aberdeen	48	21	42.2	26.9	34.2	- 7.5	1	51	2	0.77	+ 0.24	*	*	*	*
	Braemar	60	26	51.1	30.0	40.1	- 3.5	25	45	2	0.39	- 0.15	*	*	*	*
	Ochertyre-	54	30	49.1	34.1	41.2	- 2.9	20	30	2	0.10	- 0.23	*	*	*	*
	Leith	50	28	46.9	31.0	38.6	- 3.7	14	39	2	0.38	- 0.15	32.8	+ 1.8	34	+ 1
2. ENGLAND N.E.	Marchmont	49	29	46.3	31.7	38.7	- 3.6	12	37	2	0.26	- 0.22	*	*	*	*
	Alnwick Castle	48	25	43.5	32.1	37.5	- 5.5	4	34	2	0.10	- 0.34	30.4	+ 1.8	32	+ 2
	Durham	48	32	46.3	34.6	40.2	- 3.0	12	27	3	0.21	- 0.17	*	*	*	*
	Shields	47	27	46.0	33.6	39.5	- 4.2	11	30	2	0.07	- 0.33	43.2	-	46	-
	Scarborough	49	35	47.0	36.6	41.6	- 2.2	14	21	2	0.04	- 0.26	*	*	*	*
	Spurn Head	51	29	47.7	32.3	39.6	- 4.8	16	35	3	0.07	- 0.30	*	*	*	*
3. ENGLAND E.	Fulbeck (Lincolnshire)	51	27	47.5	33.6	40.2	- 4.7	15	31	3	0.08	- 0.30	27.4	- 6.3	29	- 7
	Hillington	45	35	43.4	37.0	40.1	- 3.4	4	18	2	0.07	- 0.31	*	*	*	*
	Yarmouth-	53	29	46.4	34.3	40.1	- 4.6	12	28	1	0.01	- 0.34	27.2	- 8.8	29	- 9
	Geldeston	54	27	49.9	32.5	40.8	- 4.8	22	36	1	0.07	- 0.27	28.5	- 6.5	31	- 6
	Cambridge	51	32	45.6	35.8	40.5	- 4.7	10	23	0	0.00	-	37.2†	-†	40†	-†
	Felixstowe	52	28	46.7	33.1	39.6	- 4.8	13	32	2	0.15	- 0.29	21.0	- 12.0	23	- 12
4. MIDLAND COUNTIES	Rothamsted	52	27	48.6	31.0	39.4	- 5.5	18	40	2	0.03	- 0.35	*	*	*	*
	Bawtry (Hesley Hall)	51	26	46.4	32.1	38.9	- 6.5	12	35	2	0.13	- 0.24	*	*	*	*
	Loughborough	50	30	47.3	33.7	40.2	- 5.0	15	31	3	0.13	-	*	*	*	*
	Colly Weston (Stamford)	49	30	45.8	32.1	38.6	- 5.1	11	35	2	0.08	- 0.39	*	*	*	*
	Cheadle	49	30	46.2	32.8	39.2	- 5.1	12	33	1	0.13	- 0.30	19.3	-	21	-
	Birmingham (Mid. Inst. Obs.)	50	27	48.1	31.4	39.4	- 5.9	17	39	1	0.05	- 0.32	*	*	*	*
5. ENGLAND, S.	Churchstoke	52	26	47.4	31.1	38.9	- 5.1	15	39	1	0.11	- 0.33	32.8	- 1.7	35	- 2
	Hereford	50	31	47.7	34.3	40.7	- 5.2	16	29	1	0.09	- 0.27	25.0	- 9.2	27	- 8
	Cirencester	53	31	48.0	36.6	42.0	- 4.6	17	15	1	0.08	- 0.30	11.4†	- 16.1†	12†	- 17†
	Oxford	49	27	47.4	32.7	39.7	- 4.6†	15	34	2	0.17	- 0.27	*	*	*	*
	Swarraton (Alresford)	50	30	47.1	38.4	42.5	- 2.6	19	10	1	0.07	- 0.25	29.1	-	31	-
	Dungeness	50	33	47.1	37.5	42.1	- 3.5	20	13	2	0.15	- 0.28	39.2	+ 0.6	42	+ 1
6. SCOTLAND, W.	Hastings (St. Leonards)	53	31	50.6	35.3	42.6	- 4.5	32	19	2	0.21	- 0.22	35.5	- 1.8	38	- 2
	Southampton	54	35	49.1	37.1	42.8	- 4.4	26	14	1	0.26	-	*	*	*	*
	Portland Bill	50	31	47.0	32.7	39.5	- 5.2	14	24	1	0.15	- 0.40	*	*	*	*
	Shaftesbury	55	30	50.3	32.6	41.0	- 3.8	23	36	3	1.29	+ 0.33	*	*	*	*
	Laudale (Loch Sunart)	52	31	47.2	35.1	40.9	- 2.8	15	26	2	0.12	- 0.37	15.2	- 12.5	16	- 13
	Glasgow	57	21	53.4	27.7	39.9	- 4.3	32	53	1	0.14	- 0.46	*	*	*	*
7. ENGLAND, N.W.	Cally	51	29	47.8	31.7	39.4	- 5.1	16	38	1	0.06	- 0.51	50.9	+ 11.2	54	+ 12
	Douglas (Isle of Man)	53	25	48.3	31.7	39.6	- 2.9	18	38	1	0.19	-	44.0	-	47	-
	Newton Reigny	48	29	46.3	32.1	38.9	- 5.1	12	36	1	0.18	- 0.42	39.2	+ 7.1	42	+ 8
	Stonyhurst	51	28	49.5	30.5	39.5	- 5.3	21	42	1	0.08	- 0.34	† 46.3	+ 13.7	† 49	+ 15
	Blackpool	50	23	46.4	31.8	38.8	- 5.6	12	37	1	0.23	- 0.23	30.3	-	32	-
	Manchester (Prestwich)	49	31	47.1	34.3	40.4	- 5.1	14	28	1	0.11	- 0.25	33.4	-	36	-
8. ENGLAND, S.W.	Liverpool Obsy. (Bidston)	50	30	48.0	32.3	39.8	- 6.5	17	36	0	0.00	-	*	*	*	*
	Chester	50	32	47.3	35.2	41.0	- 5.3	15	26	2	0.13	- 0.27	58.9	+ 25.3	63	+ 27
	Llandudno	48	35	46.6	36.4	41.3	- 4.7	13	21	0	0.00	- 0.45	*	*	*	*
	Holyhead	54	28	50.3	30.4	39.9	- 5.2	23	43	0	0.00	- 0.66	*	*	*	*
	Llandoverly	50	32	48.4	36.9	42.4	- 3.0	24	14	0	0.00	- 0.45	57.9	+ 18.2	62	+ 20
	Pembroke	54	31	49.8	34.4	41.7	- 4.0	22	29	0	0.00	- 0.50	*	*	*	*
9. IRELAND, N.	Clifton	52	27	48.9	33.1	40.6	- 5.6	19	33	0	0.00	-	33.1	-	36	-
	Bath	50	31	48.3	32.6	40.1	- 4.0	18	35	0	0.00	- 0.70	*	*	*	*
	Arlington (N. Devon)	56	30	51.1	33.4	41.8	- 4.9	25	33	1	0.06	- 0.50	38.4	+ 3.8	41	+ 4
	Cullompton	54	36	49.4	38.7	43.8	- 3.3	26	9	1	0.15	- 0.53	34.6	- 5.7	37	- 6
	Falmouth	53	36	49.2	37.7	43.2	- 4.1	26	12	1	0.11	- 0.43	27.6	- 10.8	30	- 11
	Plymouth	50	33	48.1	38.3	43.0	- 2.2	23	10	1	0.05	-	*	*	*	*
10. IRELAND, S.	Malin Head	54	25	51.3	30.7	40.5	- 3.3	26	43	2	0.22	- 0.31	*	*	*	*
	Edenfel (Omagh)	51	37	49.3	39.1	44.0	- 2.4	26	8	2	0.24	-	*	*	*	*
	Blacksod Point	56	28	51.6	32.6	41.6	- 3.5	27	36	1	0.14	- 0.43	46.9	+ 14.8	50	+ 16
	Markree Castle	53	29	50.2	31.7	40.5	- 3.9	23	39	2	0.37	- 0.11	46.1	+ 15.1	49	+ 16
	Armagh	49	32	47.0	36.4	41.5	- 3.5	14	22	2	0.30	- 0.15	*	*	*	*
	Donaghadee	52	33	49.0	35.8	41.8	- 4.9	20	26	2	0.12	- 0.34	42.9	+ 7.1	46	+ 8
CHANNEL ISLANDS	Dublin	53	28	50.9	31.0	40.5	- 4.8	25	42	4	0.19	- 0.31	40.2	+ 6.9	43	+ 8
	Parsonstown	51	32	49.6	34.1	41.5	- 4.7	21	31	3	0.16	- 0.36	*	*	*	*
	Kilkenny	52	35	48.6	38.0	43.1	- 4.2	25	11	2	0.23	- 0.50	*	*	*	*
	Roche's Point	54	34	49.4	38.3	43.6	- 4.2	27	10	4	0.63	- 0.27	35.1	- 1.5	38	- 1
	Valencia	56	30	52.4	35.5	43.5	- 3.2	38	18	3	0.27	- 0.54	*	*	*	*
	Killarney	55	29	51.5	34.8	42.8	- 3.5	36	20	2	0.22	- 0.37	*	*	*	*
CHANNEL ISLANDS	Foynes	53	40	50.9	41.7	46.1	- 2.0	30	1	0	0.00	- 0.50	33.6	-	36	-
	Scilly (St. Mary's)	56	37	51.1	41.1	45.9	- 2.4	31	3	3	1.12	+ 0.66	49.2	+ 6.0	53	+ 7
	Jersey															

Stations marked $\mathfrak{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathfrak{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Records are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

‡ The corresponding values in last week's report should read "20" and "+ 0.8" respectively.

Sunday, 6th April.

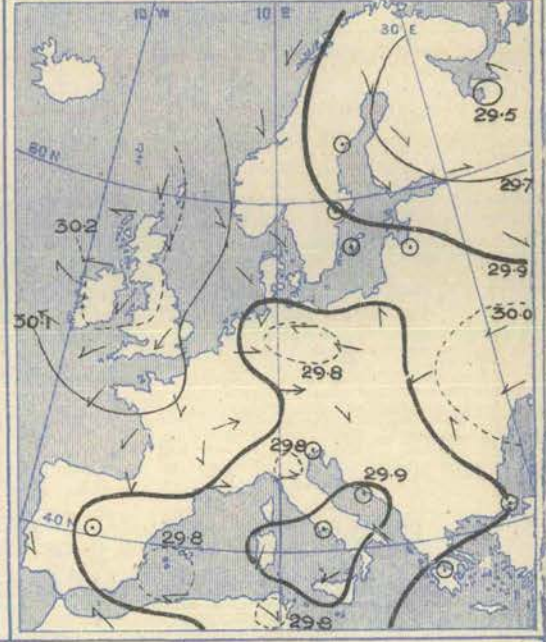
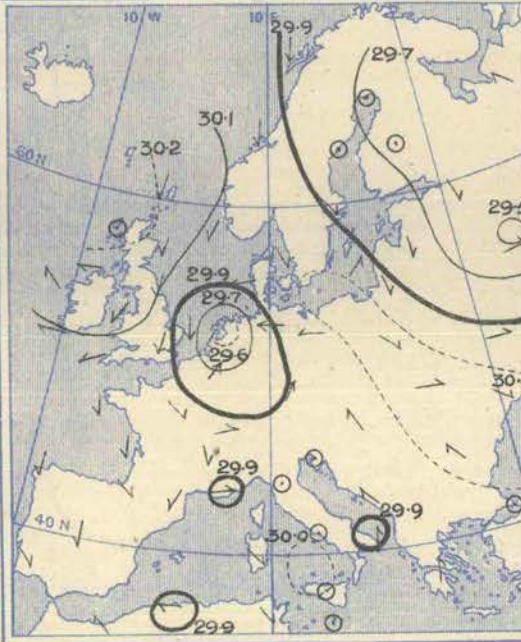
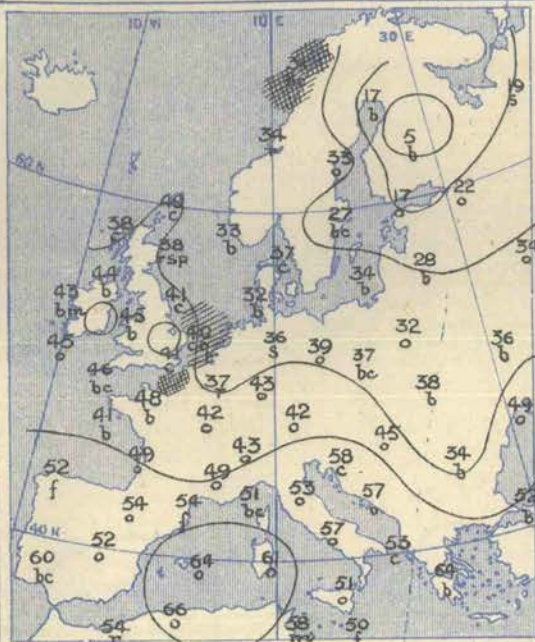
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in Greece, Turkey, and southern Russia, and also in most parts of our Islands and Scandinavia; cloudy or dull elsewhere, with rain in the Netherlands and at Christiansund, sleet at Aberdeen, and snow at Cuxhaven and Archangel. Rain later over Germany, in some parts of Austria, and at Alicante, and snow in the north of Russia.

Temperature fallen in nearly all regions except the north of Sweden and Norway. Readings at 8 a.m. highest, 66° at Algiers, 64° at Palma and Patras, and between 55° and 60° at most southern stations. Lowest, 5° at Kuopio, 19° at Archangel and Helsingfors, 23° at St. Petersburg; below 40° over the northern half of continental Europe generally. Rising during day to 55° at Munich and Biarritz, 63° at Nice, 74° at Perpignan, to above 70° in many parts of southern Europe and on the coast of Algeria, and to 79° at Tunis. Remaining below 40° in north Germany, and not exceeding 42° at Yarmouth.

Wind showing a cyclonic circulation over the Netherlands and the surrounding regions; light or moderate in force generally, but the Northerly or North-Westerly current on our own south-east coasts, and the South-Westerly wind at Brussels, strong. Very light and variable airs prevailing over the southern countries, but another cyclonic movement, of light winds, over central and northern Russia. No material change during day generally, but wind decreasing in force on our south-east coasts.

Barometer in morning highest, 30.1 ins. to 30.2 ins. in an anticyclone stretching in from the Atlantic and covering the north and west of the United Kingdom. Lowest, 29.5 ins. in a disturbance near Moscow, and as low as 29.6 ins. and less in another system lying over Holland; below 29.9 ins. in three shallow low-pressure areas lying over different parts of the Mediterranean and southern Europe. Anticyclone spreading eastwards and southwards later, and depressions moving eastwards or north-eastwards; that over the Netherlands becoming less deep. Pressure giving way steadily over the southern countries.

Monday, 7th April.

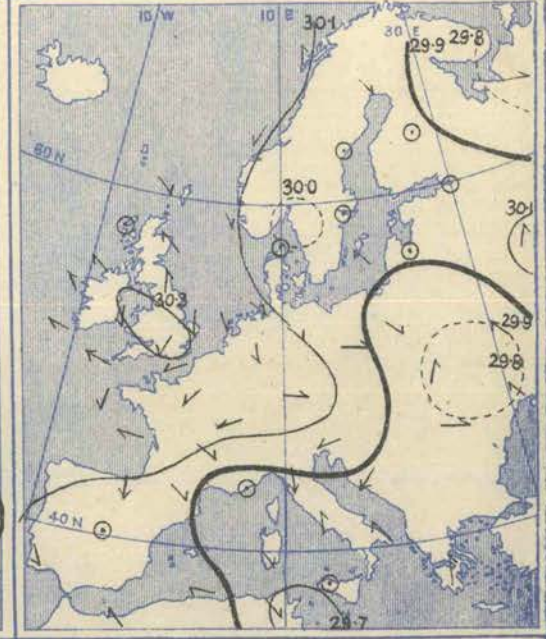
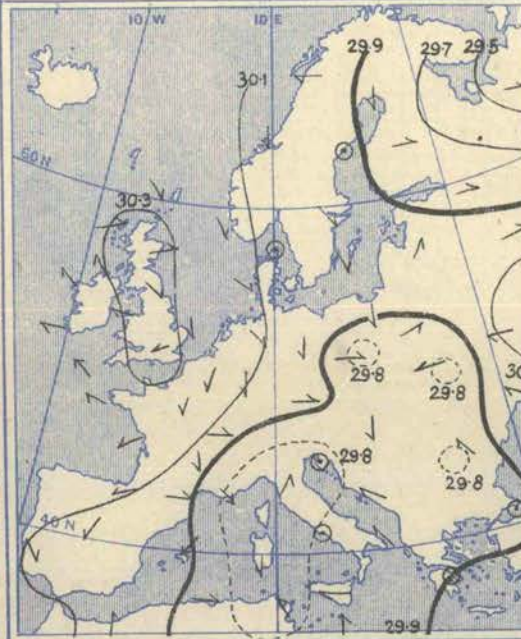
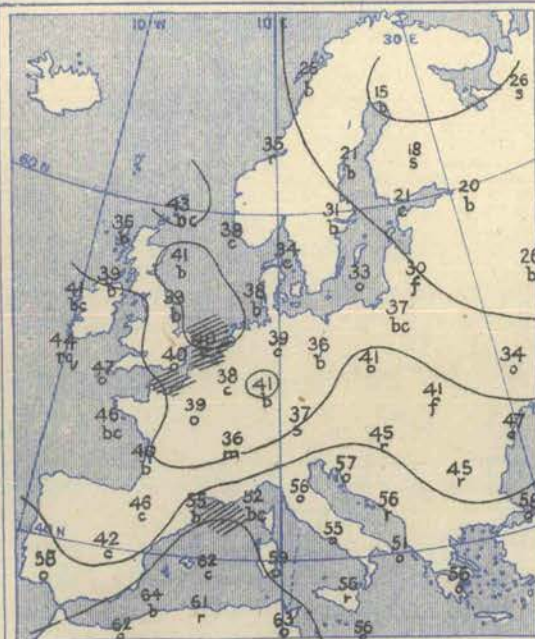
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in Scotland and Sweden and at some stations in north Germany, cloudy or dull elsewhere. Rain falling at Christiansund, Nicolaieff, Trieste, and at some Hungarian stations, and snow at Munich, Kuopio, and Archangel. Slight rain on some parts of our western coasts later; rain or snow over central Europe and in various Russian districts, and rather heavy rain at Brindisi and Palermo.

Temperature at 8 a.m. highest, 64° at Alicante, 63° at Tunis, 62° at Nemours and Oran; 59° at San Fernando and 58° at Lisbon and Constantinople. Lowest, 15° at Haparanda, 18° at Kuopio, 20° at St. Petersburg, and 26° at Bodö, Archangel, and Moscow; below 40° in most parts of Great Britain. Rising during the day to 54° at Nairn, 64° at Nice, to 66° or rather higher in Italy, to 75° at Madrid, and to 79° at Tunis. Remaining below 32° all day in extreme North, and rising very little above 40° in most parts of Germany and at Prague.

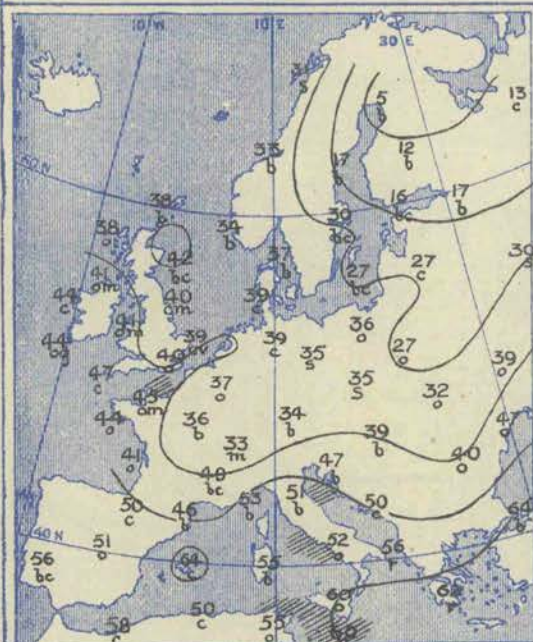
Wind in morning anticyclonic over our Islands and their neighbourhood, the Westerly wind in Scotland being light, and the Easterly wind on our southern and south-western coasts moderate to fresh. Light to moderate Northerly to Westerly winds prevailing over Finland and northern Russia, and an irregular cyclonic movement of light breezes shown over southern Europe and the Mediterranean. Not much change as a whole during day, but North-Westerly wind at Cagliari and Tunis increasing greatly in force, and a fresh gale from W.N.W. setting in at Fano.

Barometer in morning, highest, 30.3 ins. and upwards in an anticyclone lying over Great Britain, and above 30.1 ins. in the western portion of another high pressure area in the south of Russia. Lowest, 29.5 ins. and less in a depression, near Archangel; below 29.3 ins. in several distinct minima over southern and central Europe and Tunis. Northern disturbance moving eastwards during day, and those in the central and southern regions travelling eastwards or southwards. No material change over the United Kingdom, but high pressure area in the south of Russia moving northwards.

Tuesday, 8th April.

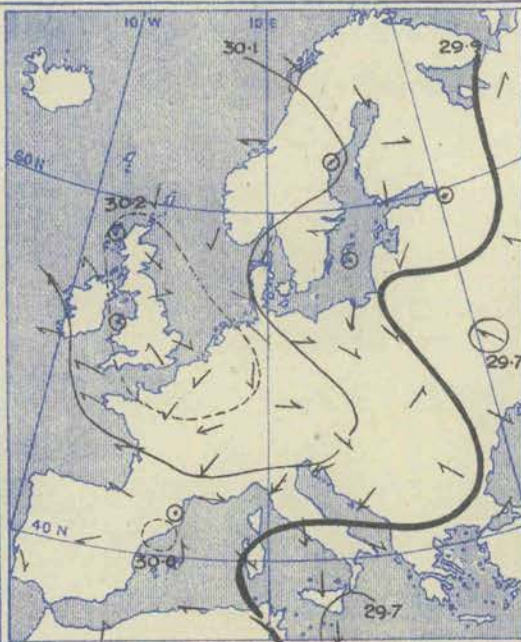
Temperature and Weather.

8 a.m.

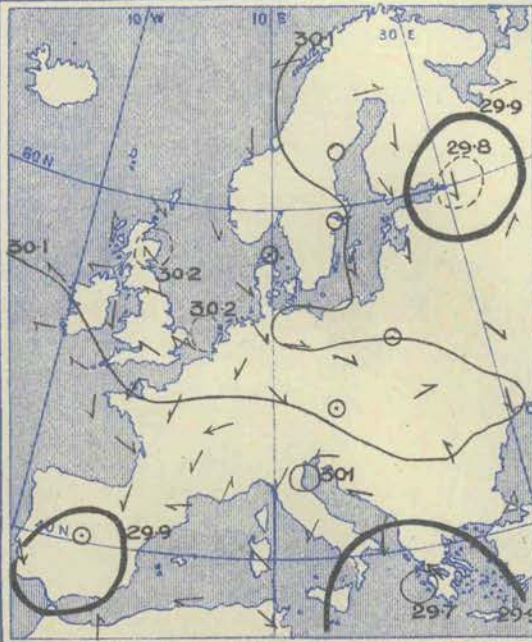


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in Finland and most parts of Scandinavia, cloudy or dull in nearly all other regions. Rain falling at Patras and Brindisi, and snow at Bodø, Berlin, Breslau, and Cracow. Weather dry in most places during ensuing 24 hours, but some rain occurring at some French and western British stations, and some rain or snow in different parts of central and northern Europe.

Temperature fallen generally. Readings at 8 a.m., highest, 64° at Palma and Constantinople, 63° or 62° in Greece; above 50° over southern Europe and the Mediterranean. Lowest, 2° at Uleaborg, 5° at Haparanda, 13° at Archangel, 27° at Warsaw, and 30° at Moscow and Stockholm; 32° at Newton Reigny and Loughborough. Maxima during day below 50° over the northern half of Europe, but as high as 63° to 70° in the Riviera, 67° at Rome, 72° at Madrid and San Fernando, and 79° at Oran.

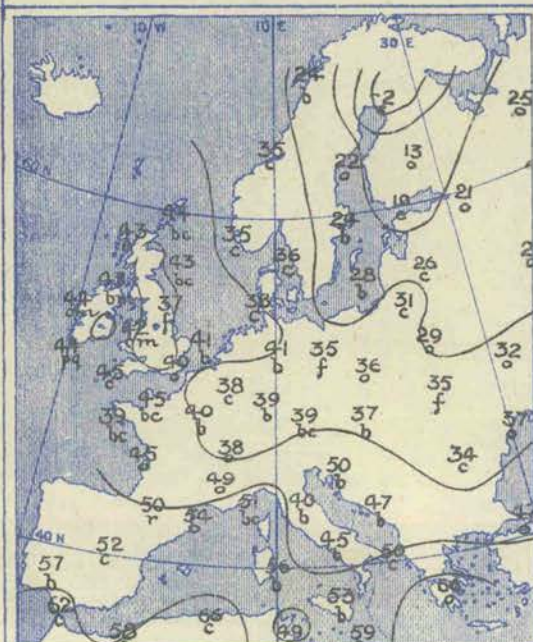
Wind in morning still anticyclonic over our Islands and their neighbourhood, and cyclonic over the eastern and southern regions. Light to moderate in force generally, but North-Easterly current strong over northern Italy and the Adriatic. A separate cyclonic circulation springing up by evening over the Spanish Peninsula, and a moderate South-Easterly gale setting in at Patras. Strong winds over Italy and the Adriatic moderating very considerably.

Barometer risen in most regions, but fallen over our Islands and south-eastern Europe. Readings at 8 a.m., highest, about 30.2 ins. in an anticyclone covering England and Scotland and stretching south-eastwards to Western Germany. Lowest, 29.7 ins. in two disturbances—one over Sicily and Malta and the other over Little Russia. Latter system travelling northwards later and the former moving eastwards towards Greece. A shallow depression forming over Spain. Anticyclone giving way somewhat, but not changing its position.

Wednesday, 9th April.

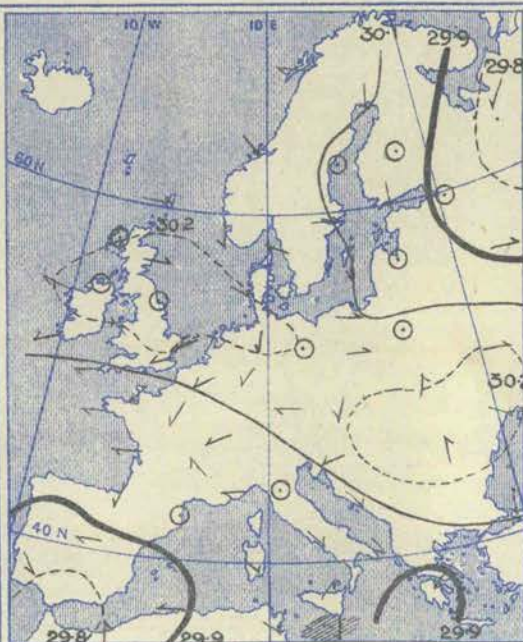
Temperature and Weather.

8 a.m.

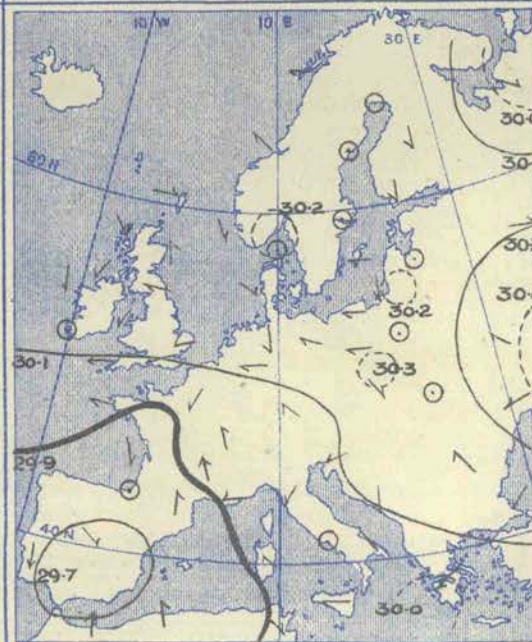


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright at many of our own and at several Italian stations, as well as in parts of Scandinavia; cloudy or dull in most other regions. Rainy at Bilbao and Biarritz and foggy at Shields and Berlin. Considerable falls of rain during day over the southern parts of France, in Spain, and the west of Algeria, and slight snow at a few stations in northern Europe.

Temperature changed little and irregularly as a whole, but fallen over Italy and south-eastern Europe. Morning readings highest, 66° at Patras and Algiers, 62° at San Fernando, and 60° at Palma; above 50° at nearly all stations in southern Europe, but only 45° at Rome, 44° at Naples, and 40° at Florence and Pesaro. Lowest, -2° at Haparanda, +10° at Hangö, 13° at Kuopio, 21° at St. Petersburg, 27° at Moscow; below 40° over central Europe and the inland districts of the United Kingdom. Subsequently rising to 54° at Leith, to between 60° and 68° in Italy, 72° at Madrid, 74° at Perpignan, and to 82° at Algiers.

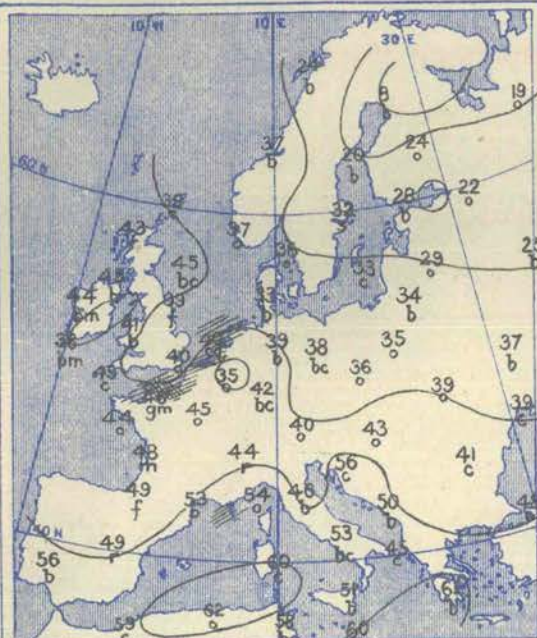
Wind anticyclonic over our Islands and their vicinity; light in force in the north, but Easterly wind blowing strongly on some parts of our southern coasts. Light anticyclonic air prevailing over Hungary and the south-west of Russia. Mainly cyclonic and light in other regions, but North-Easterly breeze blowing strongly at Athens. No important change later as a whole, but wind increasing to a moderate gale from the North-east at Athens and to a strong breeze from South at Nemours.

Barometer fallen over France, Spain, and Algeria, and risen over south-eastern Europe, but changed little elsewhere. Morning readings highest (1), 30.2 ins. and upwards in an elongated anticyclone covering the northern parts of our Islands, the North Sea, and extending eastwards to Prussia; (2), in another high-pressure area lying over Hungary, Transylvania, and the south-west of Russia. Lowest, 29.8 ins. and less (1) in a shallow disturbance over Morocco and the south of Spain, (2) in a similar system over the north-east of Russia; below 29.9 ins. over Greece. Pressure decreasing somewhat within the anticyclonic area during day, and barometer continuing to fall over France.

Thursday, 10th April.

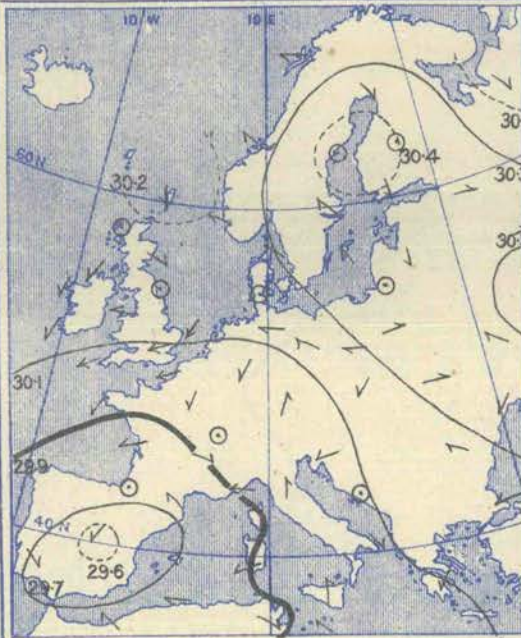
Temperature and Weather.

8 a.m.

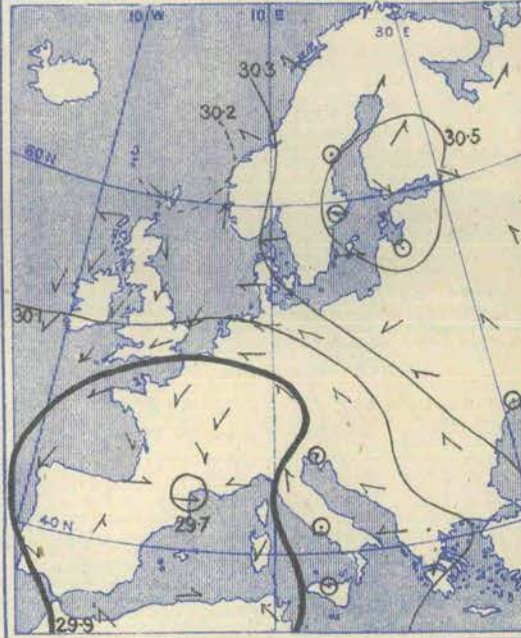


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in most places, but fine and bright in different parts of Italy, Russia, Scandinavia, and at many of our northern and western stations. Rain falling at Madrid and also in several of the more southern and central departments of France. Snow at Stockholm. Rain falling nearly all day at Jersey and heavy amounts experienced in the south and west of France—as much as 3 inches at Cape Béarn. Considerable falls in some parts of Spain and Italy.

Temperature changed rather irregularly. Readings at 8 a.m., highest, 63° at Oran, 62° at Patras, 60° at Cagliari; above 50° in nearly all parts of southern Europe and the Mediterranean, but only 42° at Pesaro. Lowest, 8° at Haparanda, 19° at Archangel and Helsingfors, 25° at Moscow; below 40° in the inland regions of Great Britain. Rising subsequently to 54° at Leitth and Valencia (Ireland), 63° at Frankfurt, to about 60° in the Riviera, 68° at Florence, 77° at Palermo, and 79° at Algiers.

Wind in morning light and anticyclonic over all the northern and eastern countries, and cyclonic over Spain and the Mediterranean. North-Easterly wind blowing strongly on the south-east coasts of England and in the Channel, and strong wind from E.N.E. prevailing at Cagliari. Very little change during day, but moderate Easterly gale setting in at Nice, and a fresh South-Easterly gale reported at Tunis.

Barometer risen briskly over north-eastern and eastern Europe, fallen over the south-western countries. Readings at 8 a.m., highest, 30.5 ins. over the south-east of Russia; 30.4 ins. over Finland and the Gulf of Bothnia, and above 30.2 ins. in a broad "col" extending westwards over the North Sea and the northern half of the United Kingdom. Lowest, below 29.6 ins., in a cyclonic system over central Spain. Not much modification within the anticyclonic region during day, but Spanish cyclonic disturbance apparently moving eastwards.

Friday, 11th April.

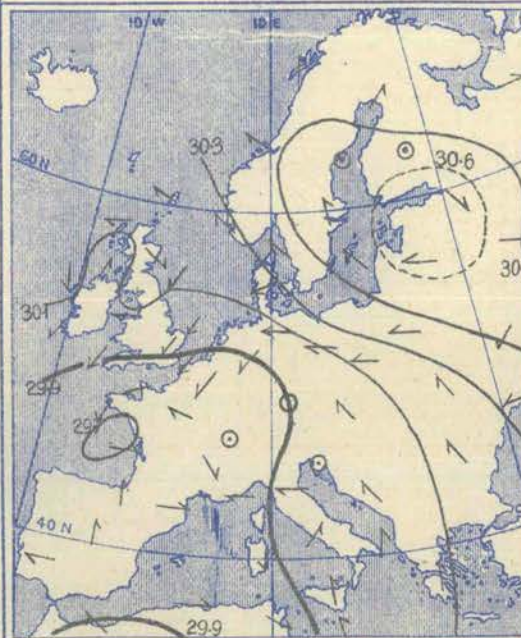
Temperature and Weather.

8 a.m.

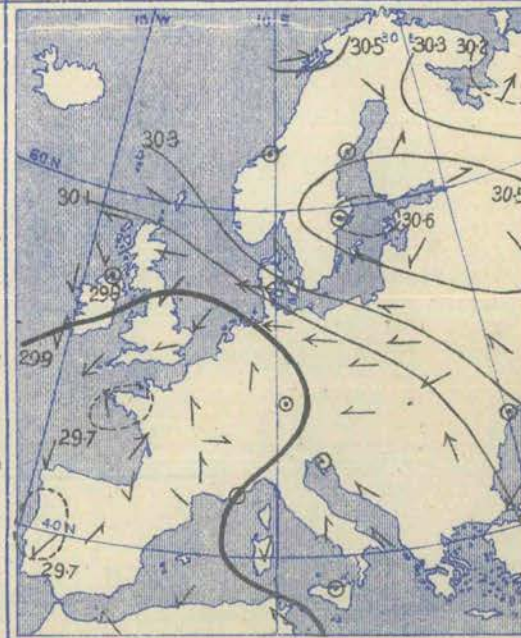


Barometer and Wind.

8 a.m.



6 p.m.

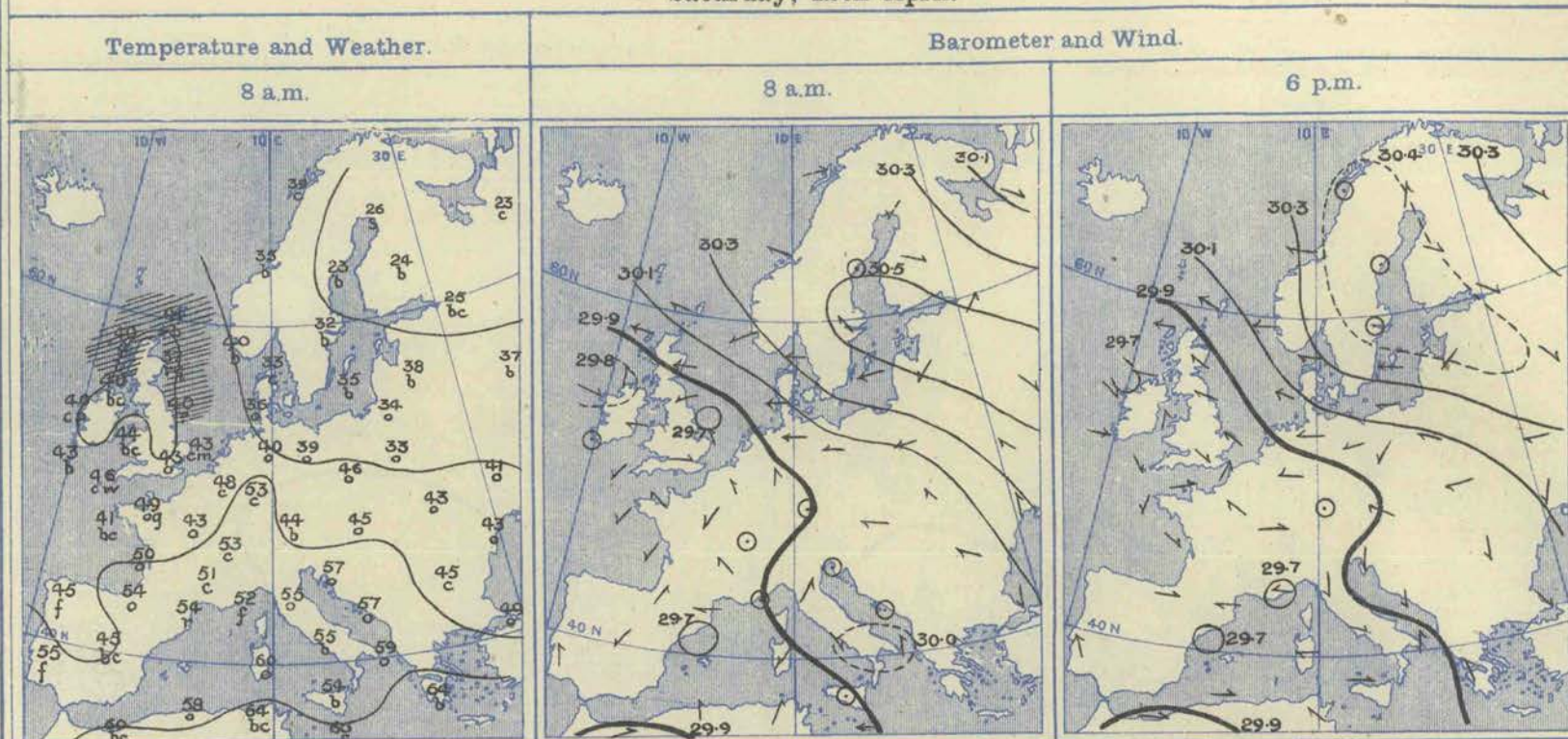


Weather in morning cloudy or dull generally, but fine and bright in some parts of northern and south-eastern Europe. Rainy at many French stations, at Turin and Breslau, and sleet falling in the Hebrides. Rain becoming general during day over our Islands and France, the Netherlands and in some Italian and Spanish localities; amount large in the Riviera. Temperature changed little and irregularly. Morning readings highest, 64° at Algiers, 63° at Patras, 61° at Barcelona; several degrees above 50° in most southern regions, but only 41° at Madrid. Lowest, 9° at Haparanda, 17° at St. Petersburg and 23° at Archangel; below 40° over our Islands and the northern half of Europe generally. Subsequently rising to about 50° at some of our own stations, to between 55° and 65° in most parts of France, 74° at Cagliari, and to 75° at Algiers. Not exceeding 43° at Sumburgh Head and Yarmouth.

Wind North-Easterly over our Islands, and strong in force in the south and south-east. Moderate to fresh from East over the central countries, and from between South and East over Italy and Spain. Light anticyclonic airs prevailing over northern Europe. Not much change as a whole later, but an Easterly gale setting in over Denmark by evening, and wind becoming more variable in direction over southern Europe and the Mediterranean.

Barometer risen in Spain, Algeria, Scandinavia, and Russia, fallen in most other countries. Morning readings highest, 30.6 ins. and upwards, in the centre of an anticyclone lying over the Baltic Provinces and Finland. Lowest, below 29.7 ins., in a disturbance over the Bay of Biscay. Anticyclone decreasing in size during day, and small disturbance forming near Main Head. Cyclonic system over Bay of Biscay moving slowly northwards to Brittany, and a shallow disturbance appearing over Portugal and the west of Spain.

Saturday, 12th April.

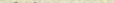


Weather in morning cloudy or dull in nearly all places, but still fine and bright at many northern stations. Fog prevailing at Corunna and Lisbon, as well as at Cape Gris Nez and Prague. Rain falling at Pessaro, Barcelona, and in several parts of the United Kingdom. Heavy rain later in the southern departments of France and at Lisbon, and slighter falls in many other southern and south-western regions.

Temperature showing no decided and general change. Readings at 8 a.m. highest, 64° at Patras and La Calle, and between 55° and 60° over the Mediterranean generally. Lowest, below 32° over the north-eastern portion of Europe and still below 40° in most parts of our Islands and over the northern half of Europe. Remaining below 45° at some of our northern and eastern stations all day, but rising to 53° in London, 66° at Munich and Clermont, 72° at Rome, Cagliari, and Palermo, and to 75° at La Calle.

Wind Easterly over the greater part of the United Kingdom and on the eastern shores of the North Sea, but Westerly at Blackod Point and Southerly at Malin Head. Light to moderate in strength generally, but strong in Denmark and in the north of Scotland. Light and anticyclonic over Russia, and light and irregularly cyclonic over Spain and the western portion of the Mediterranean. No great change as a whole during day, but wind shifting to the South-Westward over our own extreme south-eastern counties.

Barometer fallen in nearly all regions. Morning readings highest, 30.5 ins. and upwards in a long anticyclonic band stretching from central Russia to Sweden. Lowest, 29.7 ins. in a shallow disturbance near Barcelona, and as low as 29.3 ins. in a large shallow area embracing the Bay of Biscay, the west of France, and England, and in a smaller disturbance off the north-west of Ireland. Low pressure area moving northwards during day, and barometer beginning to rise on our southern coasts and over France.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus:  = a heavy gale;  = a gale;  = a fresh to strong breeze;  = a light to moderate breeze; and  = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES

At the commencement of the week a small cyclonic disturbance which had just passed eastwards over Ireland and England was continuing its course towards central Europe; another depression which subsequently moved westwards was shown over central Russia. The first-mentioned disturbance travelled away eastwards the barometer rose decidedly in its rear, and by Monday an anticyclone had appeared over our I-lands. As the week wore on the anticyclonic area became gradually enlarged until it embraced nearly the whole of northern and eastern Europe and the United Kingdom. Pressure continued relatively low and the distribution cyclonic over the southern and south-western countries, and towards the

end of the period one of these systems spreading northwards from Spain caused the North-Easterly and Easterly winds, which had hitherto been mainly light or moderate in strength, to increase to a moderate gale on our south and south-east coasts and to a fresh or strong gale in Denmark. Temperature was fairly high over the Mediterranean and southern regions generally, but rather low in most northern localities—especially in our own inland districts. The weather was mostly dry, but heavy rains were experienced over the south of France at the end of the week, and slighter falls over our Islands.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 86.

[illegible]

† The values at Rognor, Westbourne, Rhyl, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

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ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, APRIL 19TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean* Amounts are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 92.)		Temperature of the Air.															
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.									
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.					
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.		
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH.	59	27	52.0	36.6	43.9	1 above	Day-deg. 36	Day-deg. +10	Day-deg. 15	Day-deg. - 2	Day-deg. 158	Day-deg. - 15	Day-deg. 594	Day-deg. + 82		
	1. SCOTLAND, EAST	63	29	53.8	35.4	44.2	1 above	43	+10	18	0	201	- 28	651	+ 83		
	2. ENGLAND, N.E.	66	32	54.1	37.5	45.4	1 above	43	+12	13	+ 1	263	+ 30	480	+ 2		
	3. ENGLAND, EAST	70	29	56.9	38.1	47.1	1 above	52	+11	11	- 3	325	+ 31	470	- 55		
	4. MIDLAND COUNTIES	67	25	57.6	35.2	45.9	0 (average)	56	+13	19	+ 5	353*	+ 34	479*	- 50		
5. ENGLAND, SOUTH	70	27	56.6	39.2	47.5	1 above	50	+ 5	8	0	340	- 7	331	- 68			
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	29	54.0	37.0	45.1	0 (average)	43	+ 8	14	+ 2	258	+ 10	440	+ 35		
	7. ENGLAND, N.W.	63	32	54.6	37.9	45.8	0 (average)†	44	+ 8	11	+ 1	277	+ 16	396	+ 4		
	8. ENGLAND, S.W.	63	26	55.3	37.0	45.7	1 below	47	+ 5	14	+ 8	377	+ 13	308	+ 1		
	9. IRELAND, NORTH	58	29	53.3	37.5	45.1	1 below	41	+ 3	13	+ 4	282	- 35	325	- 20		
	10. IRELAND, SOUTH	61	30	54.5	38.6	46.2	1 below	44	0	10	+ 4	414	- 10	232	- 25		
-CHANNEL ISLANDS.	63	37	55.0	43.9	49.2	0 (average)	50	+ 2	0	- 1	523	+ 50	99	- 22			
DISTRICTS. (See p. 92.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	10ths of in. 4	10ths of in. 3 less	81	+ 8	16.9	+ 0.9	40	+ 7	40	+ 7	281	+ 14	25	+ 1	
	1. SCOTLAND, EAST	3	5	1 more	60	0	6.1	- 2.7	32	0	33	0	298	- 9	26	- 1	
	2. ENGLAND, N.E.	2	5	1 more	49	- 8	4.8	- 1.7	36	+ 5	37	+ 6	305	- 6	25	- 1	
	3. ENGLAND, EAST	3	2	2 less	51	- 7	4.4	- 2.0	45	+ 7	47	+ 8	357	- 23	28	- 2	
	4. MIDLAND COUNTIES	3	7	3 more	48	- 6	5.9	- 1.5	42	+ 9	44	+10	288*	- 8	27	0	
5. ENGLAND, SOUTH	3	4	0 (average)	43	- 11	5.7	- 2.3	45	+ 3	47	+ 4	364	- 20	29	- 2		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	5	2 less	71	+ 6	14.9	- 0.9	40	+ 4	41	+ 4	279	- 26	24	- 3	
	7. ENGLAND, N.W.	3	4	0 (average)	62	+ 3	7.9	- 1.4	50	+16	51	+16	339	+ 26	29	+ 2	
	8. ENGLAND, S.W.	3	5	1 less	55	- 7	8.4	- 3.8	48	+ 9	50	+ 8	338	- 40	29	- 4	
	9. IRELAND, NORTH	5	6	1 more	76	+ 8	10.4	+ 0.8	47	+13	48	+13	298	- 11	26	- 1	
	10. IRELAND, SOUTH	4	6	0 (average)	61	- 5	10.5	- 2.1	47	+ 9	48	+ 9	331	- 22	29	- 2	
- CHANNEL ISLANDS.	3	8	3 more	59	- 8	7.6	- 2.3	56	+ 3	58	+ 3	373	- 73	30	- 6		

* This value has been altered owing to the receipt of further information.
† The corresponding value in last week's report should read "5".

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during the greater portion of the week was fair and dry in most parts of England and Scotland, but rain fell occasionally, and was heavy in many localities on Tuesday. Over Ireland the rain, though not heavy, was more frequent. Thunder was heard at Galdenston on Thursday and both thunder and lightning occurred at some north-western stations on Saturday. Temperature was slightly above the mean in nearly all the "wheat producing districts," and either just equal to the normal or slightly below it in the "grazing districts." The highest of E. (in London and at Cambridge), to 67° in the Midland Counties, 66° in England S., and elsewhere to between 63° and 57°. The lowest of the minima were recorded, as a general rule, during the early days of the week, they ranged from 25° in the Midland Counties, and 26° in England S.W., to 32° in England N.E. and N.W., and to 37° in the Channel Islands.

Rainfall was a little more than the mean in some districts, and a little less in others, while in England S., Ireland S., and England N.W. it was just equal to that value.

Bright Sunshine. exceeded the mean amount in almost all parts of the Kingdom. The percentage of the possible duration ranged from 58 in the Channel Islands, 51 in England N.W., and 50 in England S.W., to 37 in England N.E., and 33 in Scotland E.

Barometer and Wind. During the greater part of the period pressure was highest over Scandinavia, while cyclonic disturbances of no great depth appeared off our west and north-west coasts, and at times spread a good deal over the Kingdom. One system travelled immediately over our Islands, and this moved northwards from Brittany during Tuesday and on the following day had reached a position off our north-east coasts. By Friday the Scandinavian anticyclone had given way and the highest pressure was shown over central Europe, while on Saturday it had moved northwards to Denmark. The winds experienced over our Islands varied considerably locally, but were mainly from between S.W., S. and S.E. and occasionally blew freshly or strongly on our more wester and north-western coasts.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.														
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
0. SCOTLAND, N	Sumburgh Head	51	32	47.0	38.1	42.3	+ 0.6	18	11	5	0.64	+ 0.17	42.6	+ 5.8	43	+ 6
	Stornoway	55	32	52.7	37.9	44.9	+ 1.7	38	11	4	0.65	+ 0.07	*	*	*	*
	Wick	54	27	50.4	36.4	43.1	- 0.2	31	16	2	0.31	- 0.08	*	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron	56	30	52.7	35.7	43.8	+ 0.9	39	18	2	0.12	- 0.92	*	*	*	*
	Fort Augustus	59	30	55.7	33.8	44.2	- 0.4	50	23	2	0.08	- 0.41	39.1	+ 11.9	39	+ 12
1. SCOTLAND, E	Fort William	59	34	53.6	37.4	45.1	+ 0.1	41	13	4	0.43	- 0.41	41.1	+ 8.6	42	+ 9
	Nairn	60	32	56.3	35.1	45.2	+ 1.1	51	19	2	0.03	- 0.27	*	*	*	*
	Aberdeen	55	33	50.4	38.0	43.9	0.0	30	11	3	0.99	+ 0.51	30.6	- 5.6	31	- 5
	Braemar	55	29	51.0	32.7	41.4	+ 0.4	25	38	3	0.52	+ 0.01	*	*	*	*
	Ochertyre	63	31	55.7	35.4	45.1	+ 0.4	49	18	4	0.49	- 0.03	*	*	*	*
	Leith	62	32	56.0	37.7	46.4	+ 1.3	49	12	5	0.33	- 0.01	*	*	*	*
2. ENGLAND N.E.	Marchmont	58	31	53.6	33.4	43.0	- 0.1	43	24	3	0.80	+ 0.28	35.5	+ 2.3	36	+ 3
	Alnwick Castle	59	35	54.8	38.1	46.1	+ 3.1	45	11	2	0.62	+ 0.15	*	*	*	*
	Durham	59	32	53.6	35.6	44.2	+ 0.3	42	18	2	0.66	+ 0.23	36.1	+ 6.1	37	+ 7
	Shields	59	36	53.1	38.6	45.5	+ 1.5	39	10	1	0.63	+ 0.25	*	*	*	*
	Scarborough	58	32	53.3	35.9	44.2	- 0.4	41	17	4	0.42	+ 0.02	39.8	—	41	—
	Spurn Head	55	38	51.4	39.7	45.3	+ 0.6	33	6	1	0.11	- 0.19	*	*	*	*
3. ENGLAND E.	Fulbeck (Lincolnshire)	66	24	58.2	36.8	47.0	+ 1.3	57	15	4	0.51	+ 0.13	*	*	*	*
	Hillington	68	30	59.7	37.3	48.0	+ 2.1	62	13	3	0.13	- 0.27	48.7	+ 12.7	50	+ 13
	Yarmouth	52	36	48.7	40.0	44.1	- 0.6	23	6	2	0.23	- 0.15	*	*	*	*
	Geldeston	63	31	57.5	38.6	47.6	+ 2.0	53	10	3	0.20	- 0.40	44.6	+ 6.7	46	+ 7
	Cambridge	70	29	62.9	36.8	49.2	+ 2.4	72	15	4	0.13	- 0.22	42.3	+ 5.3	44	+ 6
	Felixstowe	58	36	53.0	41.6	47.0	+ 0.6	37	1	3	0.37	—	54.3†	—	57†	—
4. MIDLAND COUNTIES	Rothamsted	67	29	59.4	34.5	46.4	+ 0.7	62	21	3	0.08	- 0.35	39.5	+ 3.5	41	+ 6
	Bawtry (Hesley Hall)	63	28	59.0	35.0	46.4	+ 0.4	60	20	1	0.75	+ 0.37	*	*	*	*
	Loughborough	66	28	58.7	34.3	45.9	- 0.7	60	22	2	0.85	+ 0.47	*	*	*	*
	Colly Weston (Stamford)	67	33	59.9	36.9	47.9	+ 1.5	63	14	4	0.32	—	*	*	*	*
	Cheadle	60	31	55.5	36.0	45.3	+ 0.5	48	17	1	0.50	+ 0.03	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	61	33	56.9	38.2	47.1	+ 1.8	52	11	3	0.97	+ 0.53	39.7	—	41	—
5. ENGLAND, S.	Churchstoke	61	30	56.1	33.2	44.1	- 0.3	52	25	3	0.51	+ 0.09	48.1	+ 12.5	50	+ 14
	Hereford	61	27	57.4	33.1	44.7	- 1.3	56	25	3	0.80	+ 0.42	*	*	*	*
	Cirencester	60	25	56.4	32.6	43.9	- 1.3	53	26	3	1.30	+ 0.86	50.7	+ 15.4	53	+ 16
	Oxford	65	31	58.4	37.3	47.4	+ 0.6	58	13	3	0.65	+ 0.28	45.1	+ 9.7	47	+ 10
	London	70	34	61.1	39.6	49.8	+ 2.0	65	7	2	0.10	- 0.28	28.6†	- 1.4†	30†	- 1†
	Swarraton (Alresford)	61	27	58.7	33.3	45.4	0.0	60	24	2	0.27	- 0.16	*	*	*	*
6. SCOTLAND, W.	Dungeness	58	33	54.0	41.1	47.2	+ 1.0	40	3	2	0.11	- 0.21	37.6	—	39	—
	Hastings (St. Leonards)	59	37	55.3	42.1	48.4	+ 1.6	45	0	2	0.15	- 0.27	44.2	+ 3.5	46	+ 4
	Southampton	63	33	59.4	38.7	48.6	+ 0.5	60	9	4	0.52	+ 0.08	41.5	+ 2.0	43	+ 2
	Portland Bill	55	38	51.4	42.4	46.7	- 1.4	33	0	4	0.84	—	*	*	*	*
	Shaftesbury	58	32	56.2	37.5	46.4	+ 0.5	50	13	3	0.38	+ 0.32	*	*	*	*
	Laudale (Loch Sunart)	57	35	54.1	38.9	46.1	+ 0.4	42	9	3	0.63	- 0.24	*	*	*	*
7. ENGLAND, N.W.	Glasgow	57	33	53.2	38.3	45.4	+ 0.6	39	10	2	0.10	- 0.39	37.1	+ 7.1	38	+ 8
	Cally	57	29	54.7	33.9	43.8	- 1.2	47	23	3	0.79	+ 0.19	*	*	*	*
	Douglas (Isle of Man)	55	—	52.1	—	—	—	—	—	4	0.26	- 0.29	42.6	+ 0.6	43	0
	Newton Reigny	58	32	54.3	34.6	44.0	+ 0.4	45	21	3	0.51	—	47.4	—	48	—
	Stonyhurst	60	33	53.5	36.7	44.7	- 0.5	41	15	3	0.90	+ 0.34	40.4	+ 5.9	41	+ 6
	Blackpool	63	34	55.2	37.1	45.7	- 0.1	46	14	3	0.33	- 0.07	52.2	+ 17.4	53	+ 17
8. ENGLAND, S.W.	Manchester (Prestwich)	60	33	55.2	35.8	45.0	- 0.5	47	17	2	0.82	+ 0.36	33.2	—	34	—
	Liverpool Obsy. (Bidston)	63	35	55.1	39.0	46.7	0.0	46	8	3	0.29	- 0.06	48.1	—	50	—
	Chester	62	33	56.1	36.7	45.9	- 1.3	50	15	4	0.29	—	*	*	*	*
	Llandudno	60	37	54.5	41.3	47.6	+ 0.5	42	2	4	0.18	- 0.23	60.5	+ 24.3	62	+ 25
	Holyhead	57	39	52.9	41.7	47.0	+ 0.2	36	1	3	0.15	- 0.29	*	*	*	*
	Llandovery	63	26	58.4	32.9	45.0	- 1.2	59	25	4	0.46	- 0.16	*	*	*	*
9. IRELAND, N.	Pembroke	52	37	50.9	41.9	46.2	- 0.1	30	0	3	0.25	- 0.20	55.7	+ 13.7	58	+ 15
	Clifton	59	34	56.0	37.8	46.5	- 0.3	49	12	3	0.71	+ 0.21	*	*	*	*
	Bath	60	29	56.7	34.6	45.1	- 2.4	53	21	3	0.91	—	40.2	—	42	—
	Arlington (N. Devon)	56	30	53.9	34.7	43.8	- 1.3	43	20	2	0.37	- 0.30	*	*	*	*
	Cullompton	62	26	57.9	34.0	45.4	- 2.4	57	22	3	0.32	- 0.23	40.3	+ 3.8	42	+ 4
	Falmouth	56	37	53.7	41.6	47.4	- 0.5	39	1	2	0.63	- 0.03	59.0	+ 16.4	61	+ 17
10. IRELAND, S.	Plymouth	58	31	54.7	38.2	46.1	- 2.2	45	11	2	0.31	- 0.23	47.5	+ 6.9	49	+ 7
	Malin Head	56	35	52.3	39.6	45.7	- 0.1	36	7	5	0.26	—	*	*	*	*
	Edenfel (Omagh)	58	32	54.6	34.6	44.1	- 0.7	46	21	4	1.00	+ 0.47	*	*	*	*
	Blacksod Point	56	37	52.1	42.3	47.0	- 0.3	35	0	6	0.71	—	*	*	*	*
	Markree Castle	57	29	54.7	34.1	43.9	- 1.9	46	22	7	0.86	+ 0.31	39.5	+ 5.0	40	+ 5
	Armagh	58	34	54.9	37.6	45.8	+ 0.4	45	12	4	0.42	- 0.06	54.4	+ 21.4	56	+ 22
CHANNEL ISLANDS	Donaghadee	56	33	51.3	37.0	43.8	- 2.1	34	14	3	0.42	- 0.03	*	*	*	*
	Dublin	58	37	55.7	40.5	47.7	+ 0.2	46	4	4	0.39	- 0.07	53.8	+ 15.5	56	+ 17
	Parsonstown	61	35	56.1	38.0	46.6	0.0	49	11	4	0.56	+ 0.06	44.9	+ 9.3	46	+ 9
	Kilkenny	57	30	54.9	35.9	44.9	- 2.2	46	17	4	0.80	+ 0.28	*	*	*	*
	Roche's Point	56	36	52.1	40.3	45.9	- 2.2	34	5	5	1.42	+ 0.70	*	*	*	*
	Valencia	56	34	53.3	40.6	46.7	- 1.8	39	4	7	0.95	+ 0.08	40.9	+ 2.4	43	+ 3
CHANNEL ISLANDS	Killarney	59	31	55.3	36.6	45.5	- 1.9	47	15	4	0.29	- 0.49	*	*	*	*
	Foynes	57	33	54.4	38.1	45.9	- 1.3	44	11	1	0.05	- 0.52	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	43	54.0	45.1	49.3	+ 0.7	51	0	2	0.98	+ 0.49	69	—	72	—
	Jersey	63	37	56.0	42.7	49.0	- 0.2	49	4	4	0.54	+ 0.09	46.5	+ 0.9	48	+ 1

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 13th April.

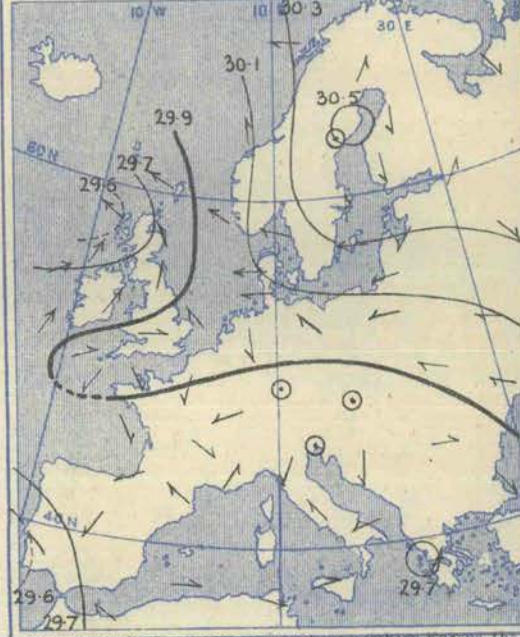
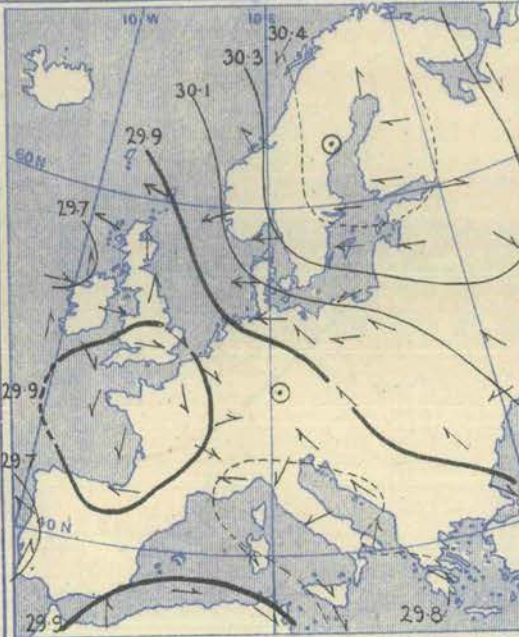
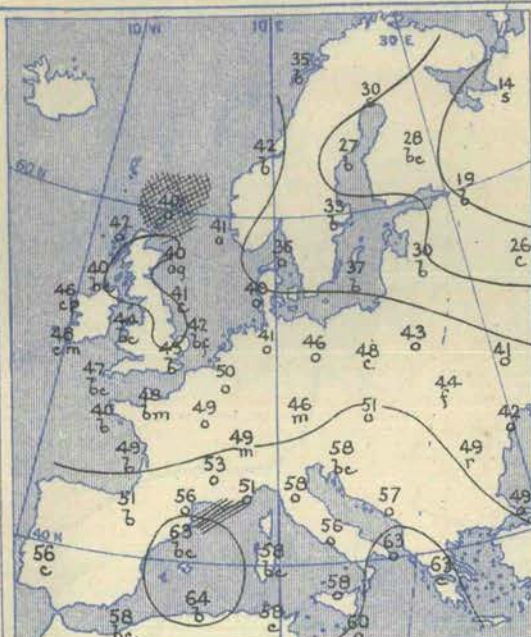
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather at 8 a.m., cloudy or dull in almost all regions, but fine and bright in parts of our Islands, France, and Scandinavia. Snow falling at Haparanda and Archangel, and rain at Wick, The Helder, Turin, Cape Sicié, and Pesaro. Rain becoming general later in the west and north of the United Kingdom, on the eastern shores of the North Sea, and in some Italian localities. A severe thunderstorm occurring at Berlin, accompanied by a rainfall of 2.04 ins.

Temperature risen in most places, but fallen at some Russian stations. 8 a.m. readings, highest, 64° at Algiers, 63° at Barcelona, Brindisi, and Patras; very little below 60° at several southern and Mediterranean stations. Lowest, 14° at Archangel, 19° at St. Petersburg, 26° at Moscow, 30° at Karlstad; below 40° over central England, at Nairn, and at Donagbadee, subsequently rising to 50° in London, 66° at Nice, 72° at Frankfurt, between 61° and 70° at the Italian stations, and to 79° at Oran. Not touching 50° on our extreme north-west and northern coasts.

Wind in morning showing two distinct anticyclonic movements—one over northern Europe, the other over France and our southern counties. Light and cyclonic over Italy and the Mediterranean. South-Westerly and moderate on our north-west coasts, Southerly in the east of Scotland, and South-Easterly in the north of Scotland. Moderate Southerly to South-Easterly winds prevailing in Portugal. Cyclonic current extending considerably over our Islands during day, and the South-Westerly wind in the north-west freshening somewhat. No other important change.

Barometer risen over England and France, fallen generally elsewhere. Readings at 8 a.m. highest, 30.4 ins. to 30.2 ins. and upwards in a large anticyclone covering nearly the whole of Scandinavia and Russia; above 29.9 ins. in another high pressure area lying over the south of England and the greater part of France. Lowest, 29.7 ins. and less, (1) off our north-western coasts; (2) over Portugal and the adjacent parts of the Atlantic Ocean; below 29.8 ins. in an irregularly formed cyclonic area over Italy and its neighbourhood.

Monday, 14th April.

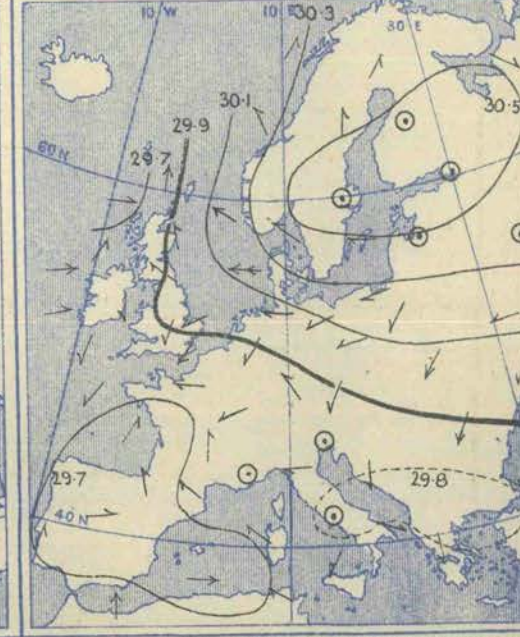
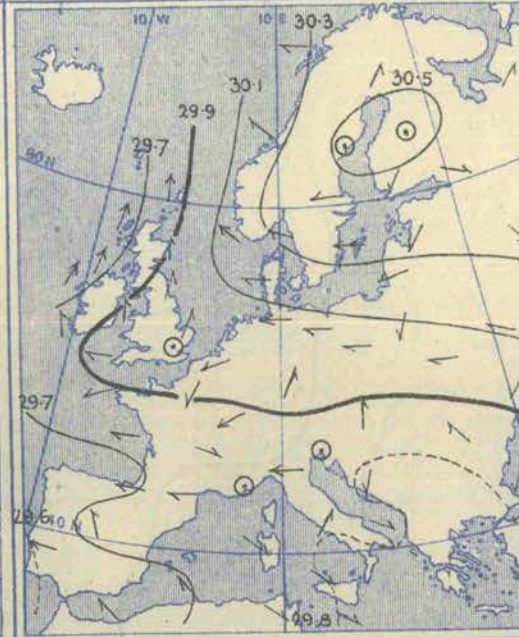
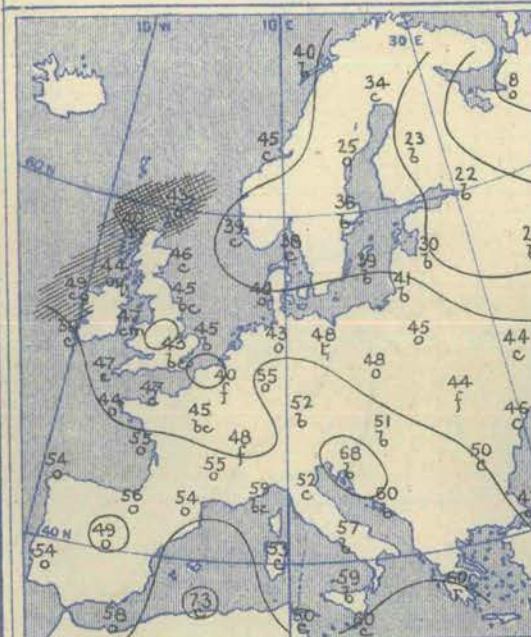
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the major portion of our area, but fine and bright in Finland and also in Italy, and at some of our own stations. Showery at Belmullet, rainy in the Hebrides and at Patras; a severe thunderstorm in progress at Berlin. Heavy rain later in the west and north-west of France, and smaller amounts in the west and south of our Islands. Heavy rain also occurring at San Fernando and Nemours.

Temperature risen a little over northern Europe and at most of our own stations, changed irregularly elsewhere. Morning readings ranging from 73° at Algiers, 68° at Trieste, and a little above or a little below 60° at most southern stations, to 46° at Paris and Christiansund, 37° over central England, 24° at Moscow, 22° at St. Petersburg, and to 8° at Archangel. Rising during the day to 91° at Algiers, 51° at Annale, 77° at Trieste, 73° at Florence and Marseilles, 69° at Paris, 68° at Vienna, 60° at Frankfurt, and to 60° at Loughborough. Not exceeding 49° at Dungeness and 46° at Yarmouth.

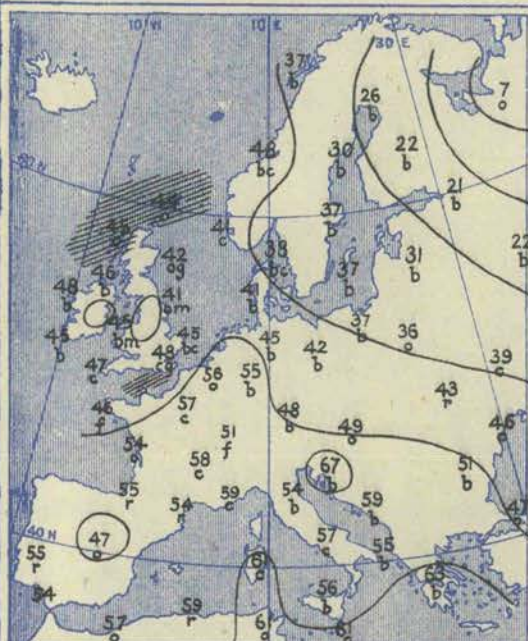
Wind light and anticyclonic over northern Europe; South-Westerly and Southerly over the west and north of our Islands, and blowing strongly in places. Mainly Easterly and light over the central countries and over our southern districts; very variable in Italy and Greece. Wind increasing to a fresh gale from East over Denmark later, and to a moderate gale from West at Algiers. Decreasing in force on our own north-west coasts and backing to North-East over our southern counties.

Barometer fallen in the extreme south-west and south-east, and also in Scotland and Norway, risen in most other regions. Morning readings highest, 30.2 ins. to 30.5 ins. in a large anticyclone covering Scandinavia and the northern half of Russia. Lowest, (1) 29.6 ins. and less in the extreme south-west of the Spanish Peninsula, and (2) off the west of Scotland; below 29.8 ins. over the Balkan Peninsula and the south of Italy. Not much change in the general distribution during day, but anticyclone spreading rather more to the westward.

Tuesday, 15th April.

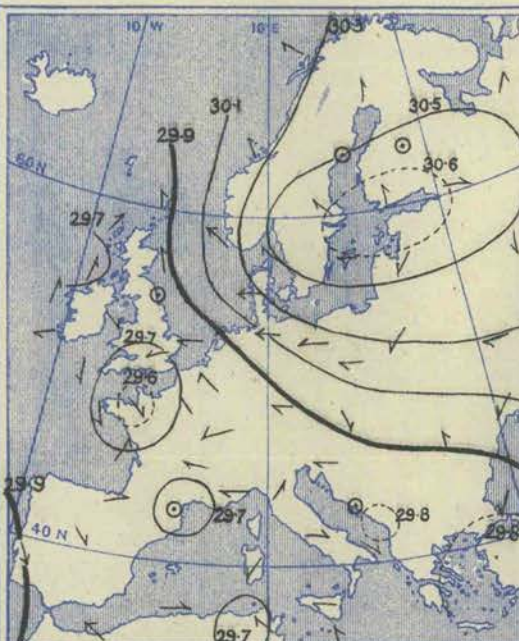
Temperature and Weather.

8 a.m.

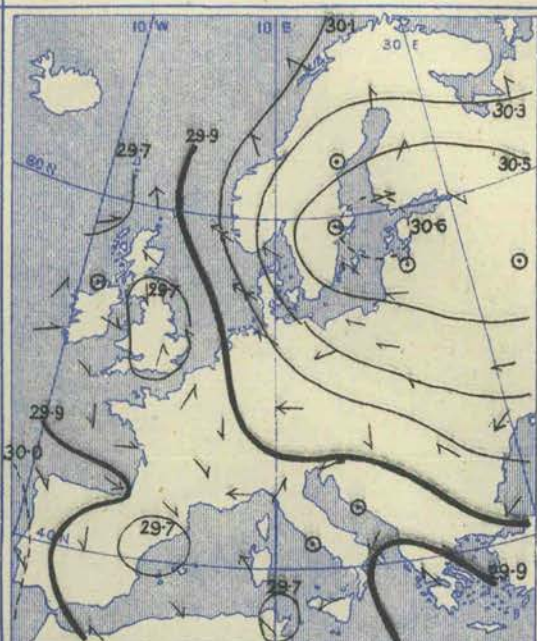


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in many parts of Russia, Scandinavia, Italy, and the north and west of our Islands; cloudy or dull elsewhere, with rain over central and southern England, Brittany, and at some Spanish and southern French stations, as well as at Oran and Algiers. Heavy rain during day over the inland and northern counties of England, in the west and south of France and at Barcelona, and as much as 1.85 ins. at La Calle. More than three-quarters of an inch at Buda Pesth, and smaller quantities in other parts of central Europe and in the Netherlands.

Temperature changed irregularly. Morning readings highest, 67° at Trieste, 63° at Patras, and between 55° and 60° at most southern stations, but no higher than 47° at Madrid. Lowest, 7° at Archangel, 21° at St. Petersburg, 22° at Moscow, and 26° at Haparanda; below 40° over central Ireland and at Newton Reigny. Rising later to 61° in London, about 70° over the inland and southern departments of France, 73° at Florence; not rising above 46° at Loughborough and 49° at Oxford.

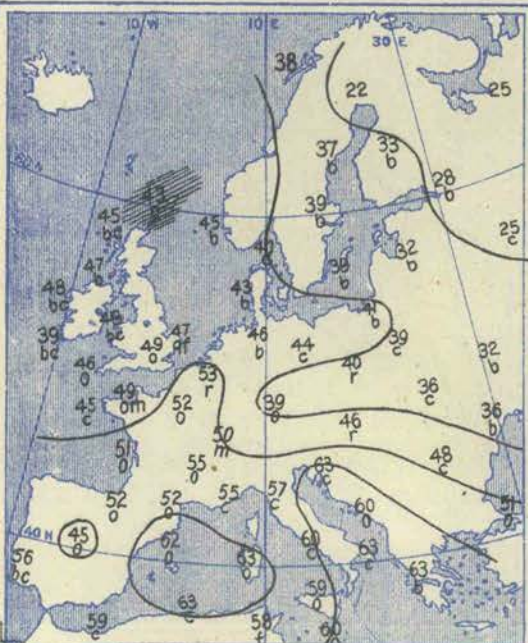
Wind still anticyclonic over north-eastern Europe, the Easterly current in Denmark being fresh. Two cyclonic circulations prevailing over our Islands and France, the one swirl being round Normandy and the other round a centre off our north-west coasts. Not much energy in either movement. Light and variable airs prevalent over the Mediterranean and its neighbourhood. Both cyclonic circulations moving northwards later, and wind increasing to a gale from South-East in Denmark and the south-west of Norway. A cyclonic circulation setting in around the Balearic Isles.

Barometer still highest, 30.2 ins. to 30.6 ins., in a large anticyclone embracing Scandinavia, north and east Germany, and nearly the whole of Russia. Lowest, 29.6 ins. in a depression over Normandy and below 29.7 ins. in three other minima—one off our own north-west coasts, another over the south of France, and the third over eastern Algeria. Below 29.8 ins. over the Grecian Archipelago. Norman depression moving northwards to central England by evening, and that off our north-west coasts almost entirely dispersing. System over the south of France moving southwards and becoming deeper.

Wednesday, 16th April.

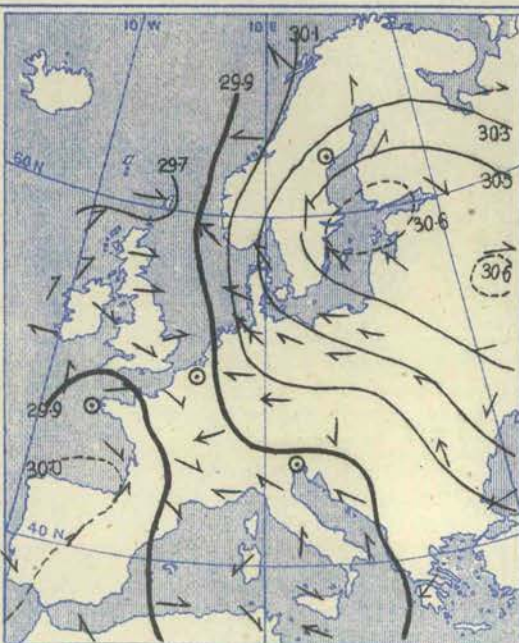
Temperature and Weather.

8 a.m.

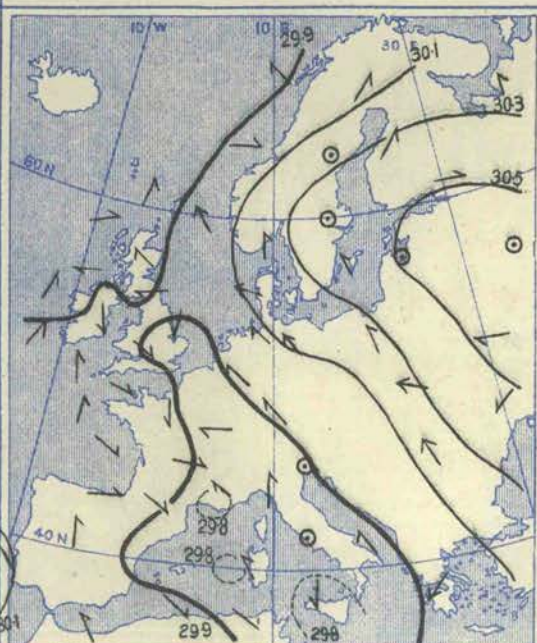


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in Finland, Sweden, Denmark, and the British Islands generally, hazy over England; much less fair over Spain, France, and central Europe, with rain over south Germany and at Brussels. A little rain later over the western and northern parts of the British Islands, as well as over Germany; larger quantities over the south-east of France and on several of the Mediterranean coasts. Solar and lunar halos seen in many parts of Great Britain.

Temperature in morning rather higher over our Islands and northern Europe, lower over the central and southern countries, than on previous day. Morning readings highest, 68° at Brindisi, 63° at Patras, Cagliari, Algiers, and Trieste, 57° at Leghorn and Turin; below 50° all over our Islands. Lowest, 22° at Haparanda, 25° at Archangel, 28° at St. Petersburg and Hangö, 33° at Karlstad, 39° at Wisby. Rising later to between 50° and 60° over the United Kingdom as a whole, to 63° at Frankfurt, 66° at Nice, 70° or more in Italy, as well as in many parts of Algeria.

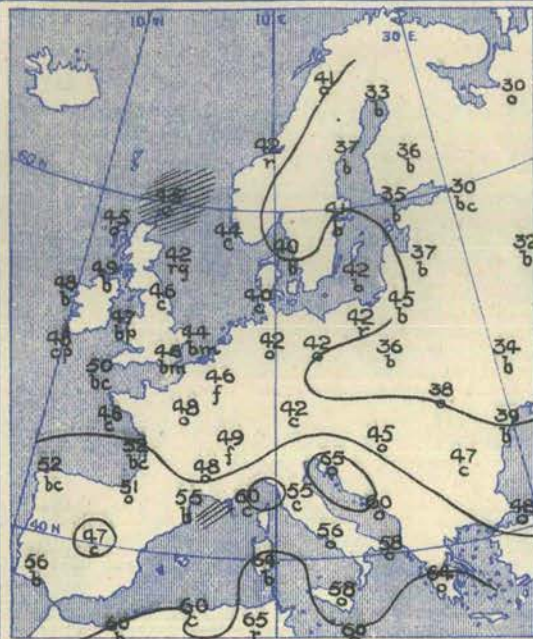
Wind very light to moderate in most places. Very strong over the countries lying to the eastward of the North Sea. Anticyclonic in direction over northern and central Europe, and also over the south-western countries. Very variable over the British Islands, but mainly South-Westerly on our north-western coasts. Moderating later on the eastern shores of the North Sea, increasing over central Europe.

Barometer highest, 30.6 ins. and more, to 30.3 ins. in a large anticyclone over the Baltic and Russia, and 30.0 ins. and more in another very shallow one over the western part of the Spanish Peninsula. Lowest, 29.7 ins. and less in two depressions—one over the Mediterranean, the other near the Shetland Isles. Gradients steep over the east half of the North Sea, slighter elsewhere. The northern anticyclone decreasing a little in intensity later and moving south-eastward.

Thursday, 17th April.

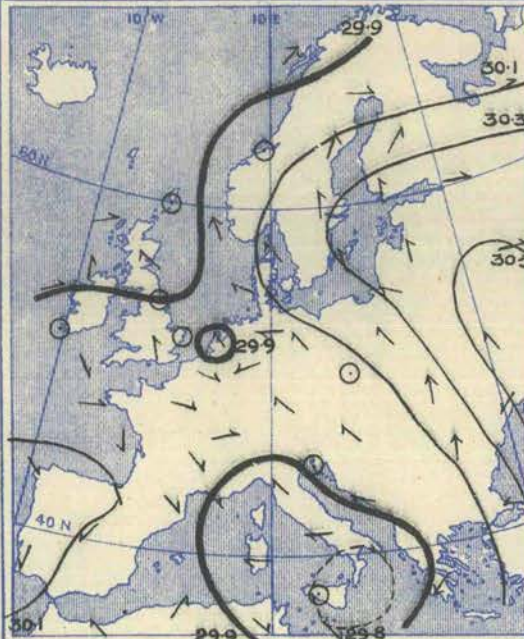
Temperature and Weather.

8 a.m.

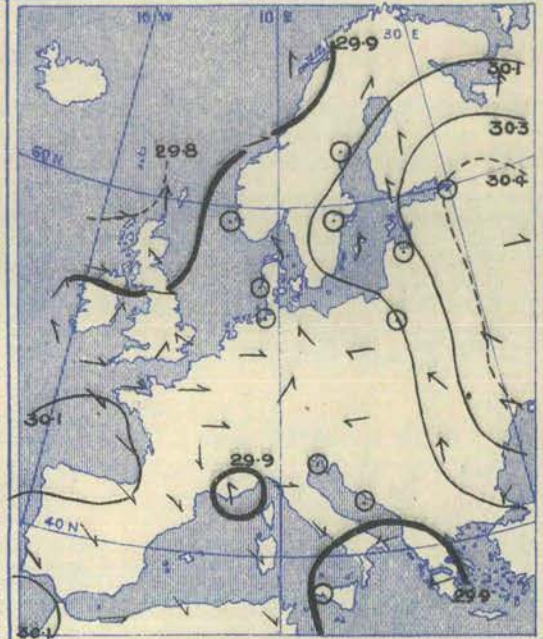


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but fine and bright in many parts of Sweden and Russia. Showers or slight rain falling at some of our northern stations as well as at Turin and Bilbao. Foggy at Brussels and Dungeness. Nearly half an inch of rain falling later at Malta, and slighter amounts in Algeria, some parts of Italy, France, Germany, the north and west of our Islands, and also in the west and south of Norway.

Temperature risen over Russia and Sweden, changed irregularly elsewhere. Readings at 8 a.m., ranging from 65° at La Calle and Trieste, 64° at Patras and Cagliari, 60° at Nice, and 59° at Barcelona; to 50° on our own south-west coasts, about 44° in Scotland and at Skudenes, 32° at Moscow and Nicolaieff, 30° at Archangel and St. Petersburg and 23° at Kharkov. Subsequently rising to 62° at Oxford, 64° at Paris, 68° at Madrid and at several Italian stations, and to 73° in Algeria. Maximum no higher than 48° at Yarmouth and Berlin.

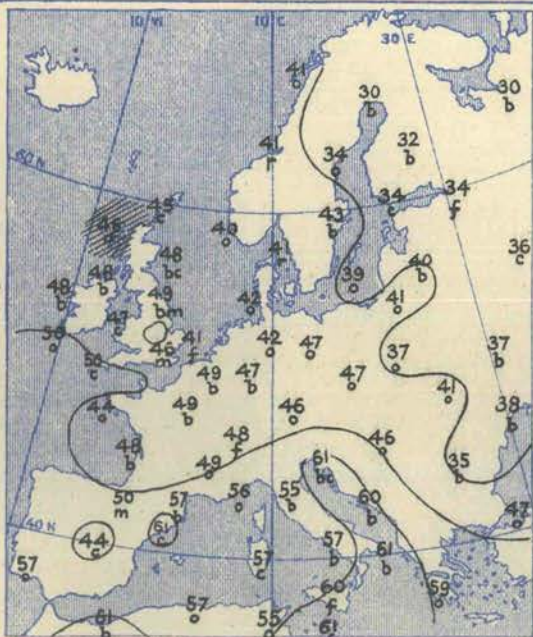
Wind light and anticyclonic both over east and south-western Europe. Three light cyclonic circulations shown—one over the northern parts of our Islands, another over the Netherlands, and the third over Italy and its vicinity. A moderate North-Easterly gale prevailing at Athens. Very little change as a whole during day, but wind falling to a calm at Athens and the anticyclonic movement in the south-west of Europe becoming restricted to the Bay of Biscay and its immediate vicinity.

Barometer fallen over northern Europe, risen in most southern regions. Morning readings highest, 30.6 ins. and upwards, in the centre of an anticyclone lying over the south-east of Russia; above 30.1 ins. in another high pressure area shown over Spain. Lowest, 29.9 ins. and less (1) in a cyclonic disturbance over our own northern districts, (2) in another system over the Netherlands, and (3) in an irregularly shaped area embracing the whole of Italy, Sardinia and Corsica. Pressure decreasing during day within the chief anticyclonic area, and the anticyclone over Spain moving northwards to the Bay of Biscay.

Friday, 18th April.

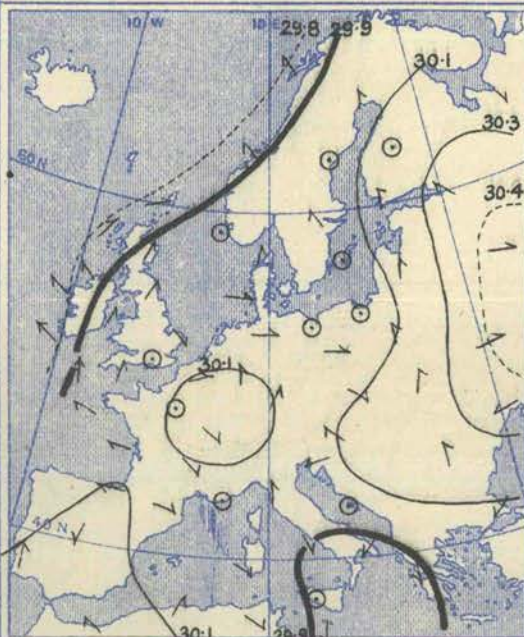
Temperature and Weather.

8 a.m.

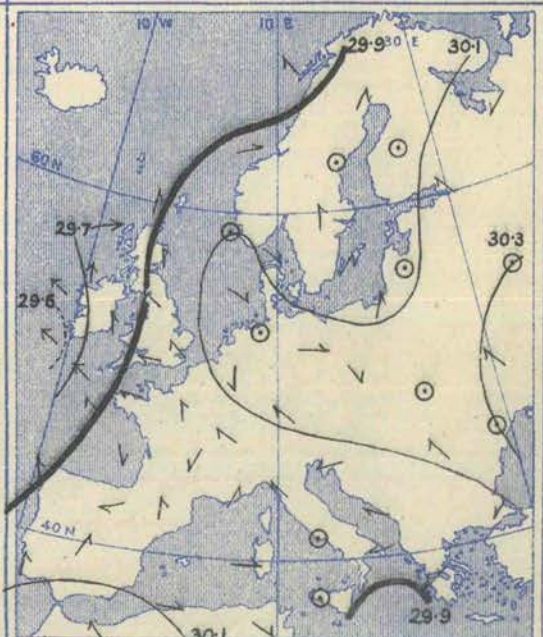


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair, but very cloudy over Russia, Germany, and Norway, clear and bright over nearly all the rest of the Continent and the major part of the British Islands. Rain later in considerable quantities at our extreme south-western stations, smaller amounts at our other south-western stations, and sporadic falls over central Europe; fog over the North Sea in evening.

Temperature in morning highest, 62° at Barcelona and 60° or more at several of the Mediterranean stations, above 50° all over southern Europe (except at Madrid), 50° in the south of Ireland, 49° at Shields and Nairn. Lowest, 39° at Loughborough, 37° at Berlin and Hertaustadt, 33° at Kharkov, 30° at Haparanda and Archangel. Rising later to 50° or more all over the British Isles, to 60° or above at Leith, and in the South of England, to 69° at Naples and Rome, and 70° at Algiers.

Wind very light in force all over Europe and variable in direction; Southerly to South-Easterly in Ireland, and blowing strongly at Valencia; Easterly, light, over the Bay of Biscay. Blowing very strongly from South-East in Ireland later (a strong gale reported at Crookhaven) and freshening greatly in St. George's Channel. Remaining very light over the Continent.

Barometer at 8 a.m. highest, 30.4 ins. to 30.2 ins. over Russia and exceeding 30.0 ins. all over central Europe, France, and the major part of England. Lowest, 29.8 ins. and less off our extreme west and north-west coasts and the north-west of Norway. Falling considerably in Ireland later, and gradients becoming steep over our western districts.

Saturday, 19th April.

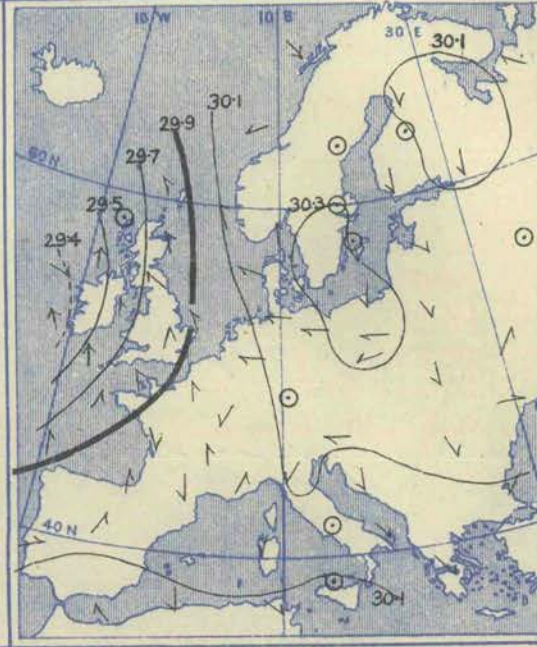
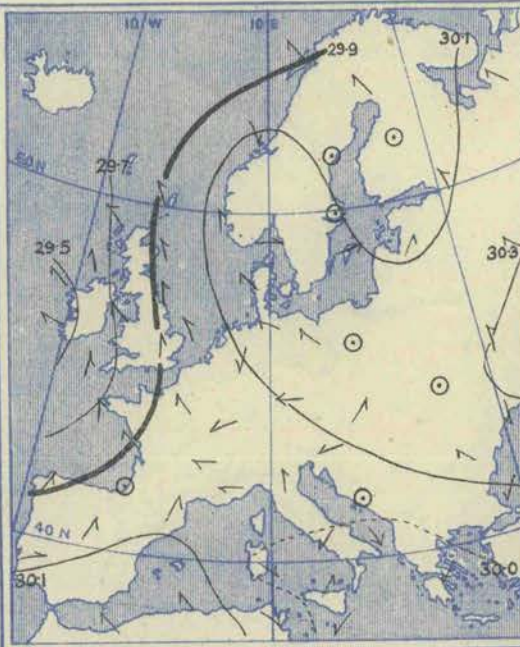
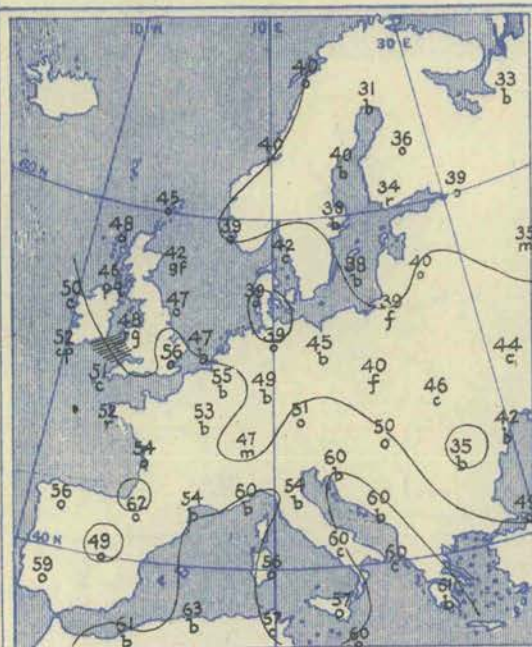
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over Denmark and Germany, but cloudy or foggy at various stations; clear and bright in the east of England, but cloudy and rainy in the west; less settled over north-western Europe than of late. Rain falling later in the north and west, most in Ireland, as well as at Munich and in a few parts of France—heavily at Le Mans. Amount of bright sunshine very considerable at Scilly.

Temperature risen over England, France, and Germany, as well as in the extreme north of Europe. Morning readings as high as 63° at Algiers, 61° to 60° at many of the Mediterranean stations, and 56° locally about London, 52° at Valencia, and above 50° on our southern coasts and over England generally. Lowest, 31° at Haparanda, 33° at Archangel, 35° at Moscow, 38° at Stockholm. Rising during day to 66° at Loughborough, 70° in London, 71° at Paris, 73° at Lyons, 76° at Bordeaux, to about 70° or a little above in Italy, and to 77° at Malta and Bilbao.

Wind mainly South-Easterly over our Islands and France, and strong in places, and South-Westerly over Spain and Portugal. Light and variable in most other regions. Wind increasing in most parts of France and the United Kingdom during day and veering somewhat. Not much change elsewhere, but Southerly and South Easterly current spreading eastwards to Denmark and Norway.

Barometer highest, 30.3 ins. and upwards over the south of Russia, and above 30.1 ins. in a large area embracing nearly the whole of that country, central Europe, and Scandinavia. Lowest, 29.5 ins. and less off the west of Ireland; below 30.0 ins. over Greece, the south of Italy and its vicinity. High pressure moving north-eastwards later, and barometer continuing to decrease over the United Kingdom.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: — = a heavy gale; — = a gale; — = a fresh to strong breeze; — = a light to moderate breeze; and — = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier half of the week pressure was persistently highest in a large anticyclone lying over northern and north-eastern Europe, while depressions of little energy arrived to our western and north-western districts from the Atlantic, and others, equally shallow, appeared over the Mediterranean and southern Europe. During the latter half of the time the high-pressure moved gradually southwards to central and southern Russia, and the cyclonic disturbances from the Atlantic spread more and more over our Islands. The winds within and in the immediate neighbourhood of the anticyclone were at first mainly from the Eastward, but as the system moved southwards they veered to the South-Eastward or even to the Southward. Over the Mediterranean and the southern countries the wind was irregularly cyclonic in

direction and generally light or moderate in force, while in our Islands (excepting on Tuesday when a depression had advanced over England from the Southward) it was mostly between South-West and South-East, and occasionally blew strongly in the west and south-west. Not much rain fell over Europe as a whole, but rather heavy falls were experienced on Tuesday at several stations in Great Britain, and large quantities in some southern countries during the early days of the week. Temperature was higher in nearly all regions than that of the preceding week, but did not differ much from the mean over the United Kingdom and its vicinity.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 92.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNES	31.1	- 3.9	31	- 4	THURCASTON	36.6	+ 4.6	38	+ 5	BOURNEMOUTH	57.9	-	80	-
STRATHPEFFER SPA	43.6	+ 10.0	44	+ 10	MARGATE	37.2	+ 0.9	39	+ 1	SOUTHPORT	51.2	-	52	-
EDINBURGH	31.1	+ 2.1	32	+ 3	BROADSTAIRS	40.3	-	42	-	RHYL	†	-	†	-
MORPETH	28.3	-	37	-	EASTBOURNE	46.9	+ 6.3	49	+ 7	COLWYN BAY	-	-	-	-
NEWCASTLE-ON-TYNE	33.0	-	34	-	BRIGHTON	41.5	+ 0.9	43	+ 1	ABERDOVEY	64.4†	-	66†	-
YORK	-	-	-	-	WORTHING	52.5	-	55	-	TENBY	49.1	+ 5.6	51	+ 6
LOWESTOFT	33.9	-	35	-	BOGNOR	56.9†	-	59†	-	NEWQUAY	48.1	+ 7.1	50	+ 7
HOLLESLEY BAY	50.0	-	52	-	WATERGATE	48.2	-	50	-	TORQUAY	47.3	+ 5.9	49	+ 6
DUNMOW	46.5	-	48	-	WESTBOURNE	52.0†	+ 12.7	54†	+ 12	GUERNSEY	51.6†	+ 5.9	53†	+ 5
SHEFFIELD	38.9	-	40	-	VENTNOR HOSPITAL	44.0	+ 0.5	46	+ 1					
WORKSOP	36.2	+ 5.9	37	+ 6										

† The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 17.]
Fourth Series.

WEEK ENDING SATURDAY, APRIL 26TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 98.)		Temperature of the Air.													
		Observed during the Week.						Accumulated.							
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	62	35	54.5	43.3	48.6	4 above	Day-deg. 46	Day-deg. +16	Day-deg. 0	Day-deg. -15	Day-deg. 204	Day-deg. + 1	Day-deg. 594	Day-deg. + 67
	1. SCOTLAND, EAST	64	30	56.1	40.8	48.1	3 above	48	+11	3	-12	249	- 17	654	+ 71
	2. ENGLAND, N.E.	64	33	57.7	42.2	49.6	4 above	53	+18	0	-10	321	+ 43	480	- 8
	3. ENGLAND, EAST	69	33	58.4	43.0	50.3	3 above	58	+11	0	-11	383	+ 42	470	- 66
	4. MIDLAND COUNTIES	66	31	59.7	42.4	50.6	4 above	60	+12	0	-12	413	+ 46	479	- 62
	5. ENGLAND, SOUTH	67	31	57.3	44.5	50.6	3 above	60	+ 9	0	- 6	400	+ 2	331	- 74
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	65	37	56.2	44.7	50.2	4 above	57	+16	0	- 9	310*	+ 21	437*	+ 23
	7. ENGLAND, N.W.	63	33	57.8	44.2	50.7	4 above	61	+20	0	- 8	338	+ 36	396	- 4
	8. ENGLAND, S.W.	62	36	56.8	45.3	50.8	3 above	62	+14	0	- 4	439	+ 27	308	- 3
	9. IRELAND, NORTH	62	39	56.1	44.7	50.1	4 above	57	+14	0	- 7	339	- 21	325	- 27
	10. IRELAND, SOUTH	62	36	56.8	45.0	50.6	2 above	60	+11	0	- 4	474	+ 1	232	- 29
	—CHANNEL ISLANDS	63	47	57.0	49.2	52.9	3 above	76	+22	0	- 1	599	+ 72	99	- 23

DISTRICTS. (See p. 98.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 4	10ths of in. 3 less	85	+ 8	17.3	+ 0.7	47	+12	46	+13	328	+ 26	27	+ 2	
	1. SCOTLAND, EAST	4	6	2 more	64	+ 1	6.7	- 2.6	47	+12	45	+11	345	+ 3	28	0	
	2. ENGLAND, N.E.	4	4	0 (average)	53	- 7	5.2	- 1.7	49	+17	48	+17	354	+ 11	27	+ 1	
	3. ENGLAND, EAST	2	2	2 less	53	- 8	4.6	- 2.2	49	+ 7	50	+ 8	406	- 15	29	- 2	
	4. MIDLAND COUNTIES	3	6	2 more	51	- 6	6.5	- 1.3	46	+12	46	+11	334	+ 4	28	0	
	5. ENGLAND, SOUTH	4	6	2 more	47	- 10	6.3	- 2.1	45	+ 2	46	+ 2	409	- 18	30	- 2	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	13	7 more	76	+ 8	16.2	- 0.2	40	+ 2	40	+ 2	319	- 24	26	- 2	
	7. ENGLAND, N.W.	4	6	2 more	66	+ 4	8.5	- 1.2	50	+13	49	+13	389	+ 40	31	+ 3	
	8. ENGLAND, S.W.	4	10	5 more	59	- 6	9.4	- 3.3	35	- 9	35	- 9	373	- 49	30	- 4	
	9. IRELAND, NORTH	5	10	4 more	81	+ 9	11.4	+ 1.3	55	+19	54	+18	353	+ 9	28	+ 1	
	10. IRELAND, SOUTH	4	11	5 more	65	- 4	11.6	- 1.6	44	+ 4	44	+ 5	375	- 18	30	- 1	
	— CHANNEL ISLANDS	6	15	10 more	65	- 5	9.1	- 1.3	42	- 3	42	- 3	415	- 76	32	- 5	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was unsettled and rainy generally during the earlier half of the week, but later on it became very fine and bright, excepting in the Channel Islands and on our extreme south-west coasts. Thunder and lightning occurred at a few extreme north-eastern stations on Sunday and in different parts of the Midlands on Wednesday or Thursday.

Temperature was above the mean in all districts, but was decreasing quickly as the period drew towards its close. The excess was as much as 3° or 4° over the Kingdom as a whole, but no more than 2° in Ireland S. The highest of the maxima were registered, as a rule, on Friday, and ranged from 69° in England E., and 67° in England S., to 62° in Scotland N., over Ireland, and in England S.W. On Saturday the maxima at several stations on our east coasts were below 50°. The lowest of the minima, which also were mostly recorded on Friday, varied from 30° in Scotland E., and 31° in the Midland counties and England S., to 39° in Ireland N., and 47° in the Channel Islands. During the earlier days of the week the nights were mild for the time of year.

Rainfall was more than the mean over the greater part of the Kingdom, but only just equal to it in England N.E., and less in Scotland N. and England E. The excess was very considerable in most western districts, and (owing to a heavy fall at Jersey on Saturday) the aggregate was very large in the Channel Islands.

Bright Sunshine exceeded the normal amount in all districts excepting England S.W. and the Channel Islands. In Ireland N. the percentage of the possible duration was as much as 54, and in England E. 50, whence it decreased to 40 in Scotland W., and to 35 in England S.W. Barometer and Wind. During the earlier half of the period the barometer was highest over the north-eastern and eastern portion of our area, while cyclonic disturbances appeared off our western coasts. The most important of these systems was that shown on Tuesday, and whose secondary travelled eastwards over the more southern parts of England. This system, too, caused the Southerly winds to increase greatly in force, and to blow moderate or fresh gales on different parts of our coasts. Towards the end of the week an area of low pressure reached the Bay of Biscay and our south-west coasts from the south-westward, and as the anticyclone still held in the north-east, fresh or strong Easterly winds set in over all our more southern districts, and light winds from the same quarter in the north.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N	Sumburgh Head	49	40	45·6	41·6	43·5	+ 1·2	12	1	0·12	- 0·33		*	*	*
	Stornoway	62	38	57·3	43·0	49·8	+ 5·7	55	0	0·49	- 0·08	52·2	+ 13·5	50	+ 13
	Wick	55	35	52·0	41·6	46·6	+ 2·4	34	1	0·13	- 0·25	*	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron	60	35	57·5	44·2	50·5	+ 6·4	60	0	0·26	- 0·77	*	*	*	*
	Fort Augustus	60	35	57·2	44·2	50·4	+ 4·7	59	0	0·25	- 0·22	42·9	+ 14·6	42	+ 15
1. SCOTLAND, E	Fort William	62	39	57·5	45·1	51·0	+ 4·8	63	0	0·88	+ 0·07	42·0	+ 7·9	41	+ 8
	Nairn	64	32	60·1	41·6	50·4	+ 5·2	60	1	0·03	- 0·28	*	*	*	*
	Aberdeen	57	39	53·4	41·4	47·1	+ 2·3	38	2	0·66	+ 0·19	61·8	+ 23·8	60	+ 23
	Braemar	55	30	52·2	38·9	45·2	+ 3·2	35	9	1·51	+ 1·00	*	*	*	*
	Ochertyre	64	33	57·7	40·9	48·9	+ 3·2	53	3	1·19	+ 0·66	*	*	*	*
	Leith	62	38	58·1	44·1	50·8	+ 4·6	62	0	0·18	- 0·17	*	*	*	*
2. ENGLAND N.E.	Marchmont	61	32	55·0	37·9	46·0	+ 1·7	45	11	0·27	- 0·26	46·3	+ 11·3	45	+ 11
	Alnwick Castle	61	35	60·0	39·3	49·2	+ 5·2	62	8	0·51	+ 0·04	*	*	*	*
	Durham	61	33	56·2	40·3	47·9	+ 3·0	48	5	0·48	+ 0·04	50·2	+ 19·0	50	+ 18
	Shields	61	40	56·4	42·4	49·1	+ 4·2	50	0	0·30	- 0·06	*	*	*	*
	Scarborough	64	35	57·9	42·3	49·7	+ 4·3	54	0	0·32	- 0·09	51·7	—	51	—
	Spurn Head	62	40	56·7	44·7	50·4	+ 4·8	59	0	0·22	- 0·10	*	*	*	*
3. ENGLAND E.	Fulbeck (Lincolnshire)	64	41	59·1	44·0	51·2	+ 4·8	64	0	0·38	- 0·01	*	*	*	*
	Hillington	65	40	62·4	43·4	52·4	+ 5·5	73	0	0·23	- 0·17	39·0	+ 0·3	39	0
	Yarmouth	59	40	52·9	44·6	48·6	+ 2·8	46	0	0·11	- 0·26	*	*	*	*
	Gedston	64	37	59·6	42·9	50·9	+ 4·2	62	0	0·10	- 0·25	45·8	+ 5·3	46	+ 5
	Cambridge	69	38	62·4	42·0	51·7	+ 3·7	68	0	0·14	- 0·21	53·0	+ 13·8	54	+ 15
	Felixstowe	57	40	53·9	44·8	49·1	+ 1·9	50	0	0·19	—	53·5†	—†	54†	—†
4. MIDLAND COUNTIES	Rothamsted	62	33	59·0	40·1	49·1	+ 2·3	58	5	0·27	- 0·17	47·7	+ 10·5	48	+ 11
	Bawtry (Hesley Hall)	66	35	61·7	41·6	51·2	+ 4·0	66	1	0·35	- 0·04	*	*	*	*
	Loughborough	65	38	60·9	43·1	51·6	+ 3·9	67	0	0·47	+ 0·07	*	*	*	*
	Colly Weston (Stamford)	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Cheadle	64	39	59·4	41·9	50·2	+ 4·5	58	0	0·34	- 0·14	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	63	41	58·5	43·4	50·6	+ 4·2	60	0	0·83	+ 0·37	43·4	—	44	—
5. ENGLAND, S.	Churchstoke	62	36	59·1	40·9	49·6	+ 4·0	58	3	1·15	+ 0·72	49·3	+ 12·7	49	+ 12
	Hereford	62	36	58·9	43·4	50·8	+ 3·1	62	0	1·13	+ 0·74	*	*	*	*
	Cirencester	62	31	58·7	40·4	49·1	+ 2·7	56	4	0·36	- 0·07	44·3	+ 5·3	45	+ 6
	Oxford	65	38	60·0	44·1	51·7	+ 3·8	68	0	0·15	- 0·23	48·9	+ 12·6	49	+ 11
	London	67	37	62·4	44·0	52·8	+ 3·7	76	0	0·11	- 0·27	36·5†	+ 4·2†	37†	+ 5†
	Swarraton (Alresford)	64	31	59·1	42·1	50·2	+ 3·7	57	0	0·89	+ 0·46	*	*	*	*
6. SCOTLAND, W.	Dungeness	57	37	54·4	44·6	49·3	+ 1·9	51	0	0·18	- 0·13	49·1	—	50	—
	Hastings (St. Leonards)	62	44	55·6	46·2	50·7	+ 2·8	61	0	0·40	- 0·02	46·8	+ 3·3	47	+ 3
	Southampton	64	38	60·0	45·9	52·6	+ 3·4	74	0	0·84	+ 0·39	43·3	+ 1·4	44	+ 2
	Portland Bill	55	45	54·1	46·3	50·0	+ 0·9	56	0	0·80	—	*	*	*	*
	Shaftesbury	60	40	55·3	42·5	48·6	+ 1·6	46	0	0·76	+ 0·21	*	*	*	*
	Laudale (Loch Sunart)	61	42	57·7	46·5	51·8	+ 5·2	69	0	2·54	+ 1·69	*	*	*	*
7. ENGLAND, N.W	Glasgow	60	42	56·1	45·8	50·7	+ 4·8	61	0	0·27	- 0·23	29·5	- 2·2	29	- 2
	Cally	65	37	57·5	41·7	49·2	+ 3·1	52	1	1·29	+ 0·69	*	*	*	*
	Douglas (Isle of Man)	58	43	53·6	44·9	49·0	+ 2·7	49	0	1·10	+ 0·57	51·0	+ 6·7	50	+ 6
	Newton Reigny	63	33	56·6	41·1	48·5	+ 4·0	49	3	1·38	—	51·4	—	51	—
	Stonyhurst	61	41	56·6	44·1	50·1	+ 3·9	57	0	0·73	+ 0·18	41·3	+ 4·5	41	+ 5
	Blackpool	62	37	58·5	43·6	50·7	+ 3·7	61	0	0·47	+ 0·05	54·0	+ 16·7	53	+ 16
8. ENGLAND, S.W.	Manchester (Prestwich)	62	40	59·0	43·9	51·1	+ 4·7	64	0	0·55	+ 0·08	37·8	—	37	—
	Liverpool Obsy. (Bidston)	62	42	59·1	44·9	51·7	+ 4·0	68	0	0·45	+ 0·09	38·4	—	38	—
	Chester	63	38	60·0	44·4	51·8	+ 3·8	69	0	0·49	—	*	*	*	*
	Llandudno	63	42	58·9	45·6	51·9	+ 3·9	69	0	0·49	+ 0·07	57·0	+ 18·7	57	+ 19
	Holyhead	60	44	53·7	46·0	49·7	+ 2·0	54	0	0·54	+ 0·10	*	*	*	*
	Llandovery	62	37	58·0	43·9	50·6	+ 3·2	60	0	1·42	+ 0·80	*	*	*	*
9. IRELAND, N.	Pembroke	57	43	52·9	45·9	49·2	+ 2·0	50	0	1·04	+ 0·59	40·1	- 4·4	41	- 4
	Clifton	62	41	58·3	45·5	51·6	+ 3·7	67	0	0·62	+ 0·11	*	*	*	*
	Bath	62	36	59·1	44·3	51·3	+ 2·9	65	0	0·40	—	40·7	—	41	—
	Arlington (N. Devon)	59	37	56·6	43·7	49·8	+ 3·6	55	0	0·74	+ 0·08	*	*	*	*
	Cullompton	62	38	58·9	44·3	51·3	+ 2·5	65	0	1·11	+ 0·57	31·8	- 6·5	32	- 7
	Falmouth	59	44	55·7	46·8	51·0	+ 2·4	63	0	1·70	+ 1·06	39·0	- 5·8	39	- 6
10. IRELAND, S.	Plymouth	56	45	54·9	47·9	51·2	+ 1·8	64	0	1·32	+ 0·80	34·0	- 8·6	34	- 9
	Malin Head	58	41	55·3	45·4	50·1	+ 3·6	57	0	0·50	—	*	*	*	*
	Edenfel (Omagh)	62	39	58·1	43·1	50·2	+ 4·2	57	0	1·45	+ 0·91	*	*	*	*
	Blacksod Point	61	45	55·4	46·9	51·0	+ 3·0	63	0	0·47	—	*	*	*	*
	Markree Castle	60	42	57·6	44·3	50·6	+ 4·2	60	0	1·03	+ 0·48	55·7	+ 19·4	55	+ 19
	Armagh	58	42	56·8	44·4	50·3	+ 4·0	58	0	0·95	+ 0·46	53·2	+ 18·2	53	+ 18
CHANNEL ISLANDS	Donaghadee	57	43	53·4	44·3	48·6	+ 2·0	46	0	1·27	+ 0·82	*	*	*	*
	Dublin	62	44	58·1	46·5	52·0	+ 3·7	70	0	0·68	+ 0·22	52·6	+ 11·9	53	+ 13
	Parsonstown	60	36	57·4	42·4	49·5	+ 1·8	53	0	0·64	+ 0·14	49·0	+ 11·5	49	+ 12
	Kilkenny	58	42	55·9	45·3	50·4	+ 2·3	59	0	1·34	+ 0·82	*	*	*	*
	Roche's Point	58	45	52·9	46·4	49·5	+ 0·6	53	0	1·44	+ 0·73	*	*	*	*
	Valencia	62	42	56·3	46·6	51·2	+ 1·9	64	0	1·79	+ 0·96	30·5	- 10·1	31	- 10
CHANNEL ISLANDS	Killarney	62	42	58·2	44·1	50·8	+ 2·6	62	0	1·30	+ 0·54	*	*	*	*
	Foynes	62	40	58·8	43·8	50·9	+ 2·9	62	0	0·47	- 0·09	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	49	55·3	49·6	52·3	+ 3·0	72	0	1·39	+ 0·93	35·9	—	36	—
	Jersey	63	47	58·7	48·7	53·5	+ 3·4	81	0	1·57	+ 1·12	39·4	- 8·6	40	- 9

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

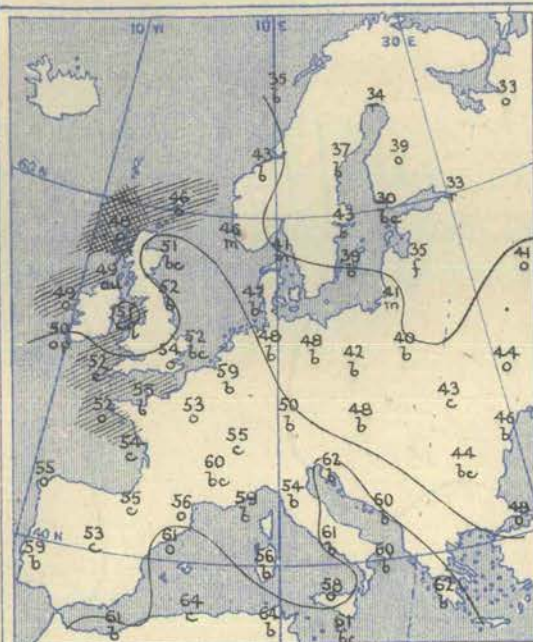
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake

Sunday, 20th April.

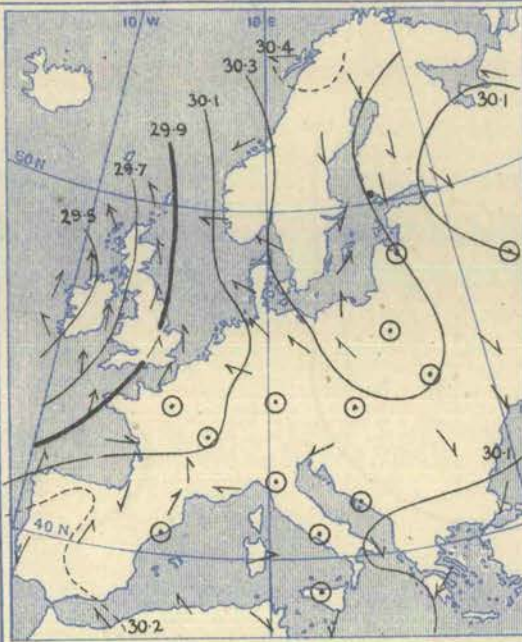
Temperature and Weather.

8 a.m.

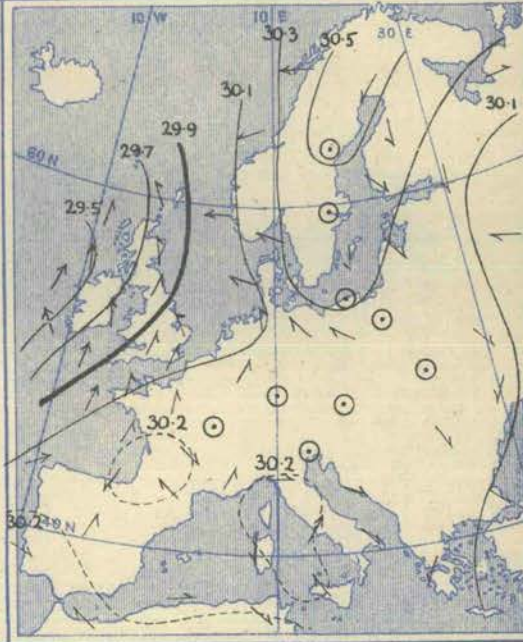


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but showery at some of the Irish stations and also at Dungeness. Dull in France and also over northern and central Russia, with rain at St. Petersburg as well as at Haparanda. Showers falling later in nearly all parts of western Europe; thunderstorms occurring in the north of England and at Cuxhaven.

Temperature risen in all the western countries, but fallen in most other regions. Morning readings, highest 64° at Algiers and La Calle, and 62° at Trieste, Athens, and Tunis; above 55° over southern Europe generally, and very little below it in many parts of the United Kingdom. Lowest, 30° at Hangö, 33° at Archangel and St. Petersburg, and 34° at Haparanda; below 40° in most parts of Scandinavia and northern Russia. Rising during day to 60° and upwards in nearly all parts of Great Britain, and to 65° in London; exceeding 65° in France, and reaching 70° and more at several stations in southern Europe, the highest reading reported being 76° at Florence and Palermo.

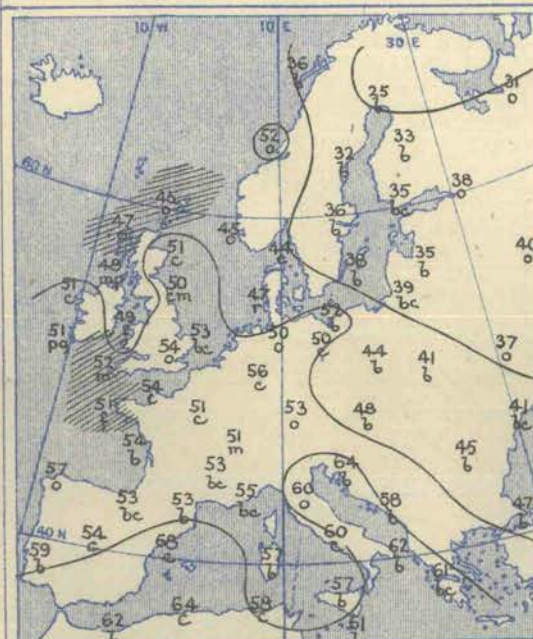
Wind Southerly over our Islands and the neighbouring parts of the Continent, and strong to a gale in force on many parts of our western coasts; light to moderate from the Eastward and South-Eastward over Norway, Denmark, and Germany. Light from the Northward in Finland and Sweden, and from the North-Westward over the south of Russia. Calm or variable over all the more southern parts of the Continent. No important change occurring during day.

Barometer highest, 30.4 ins. and upwards to 30.1 ins. in an anticyclone lying over the greater part of northern and central Europe. Lowest, 29.5 ins. in a cyclonic disturbance lying off the west of Ireland. Latter system moving away over the Atlantic later—apparently in a north-westerly direction, and barometer rising over the whole of Ireland and England.

Monday, 21st April.

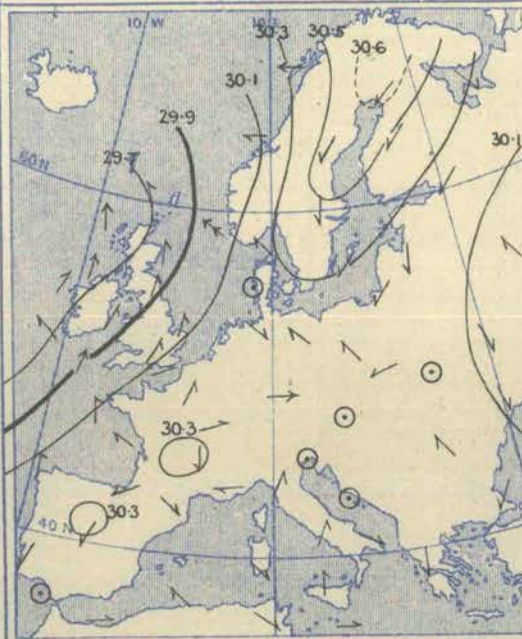
Temperature and Weather.

8 a.m.

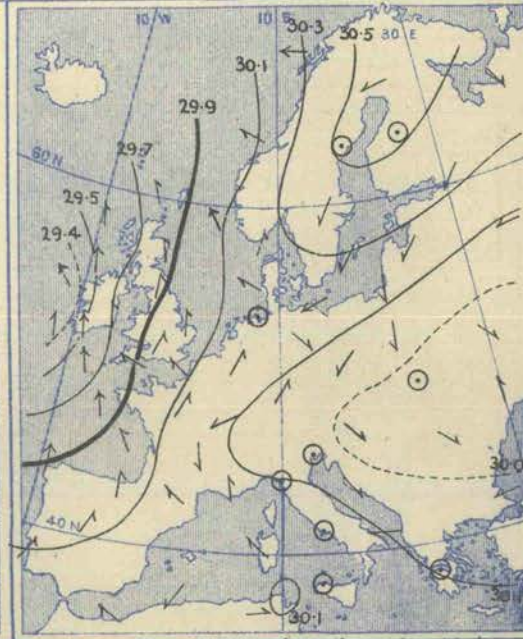


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over eastern and central England, but cloudy or dull over north-western Europe as a whole, with rain at many of our own western and southern stations, as well as in Denmark; fog reported on the north-west coasts of France. Fair or fine in most of the eastern, central and southern countries, as well as in Finland and Scandinavia, but dull in some parts of northern Italy. Rain falling later over nearly the whole of our Islands and the neighbouring portions of the Continent, heavily at many of our western stations; amount exceeding an inch at Valencia and Roche's Point.

Temperature fallen over Sweden and northern Russia, changed very irregularly elsewhere. Morning readings, highest, 68° at Barcelona, 66° at Bilbao, and 64° at Trieste and Algiers; above 55° in most parts of southern Europe. Lowest, 25° at Haparanda, 28° at Uleaborg, 31° at Archangel, and 32° at Hernösand; below 40° in most parts of Sweden and northern Russia. Rising during day to between 55° and 60° over the United Kingdom generally, and to 62° in London, exceeding 65° over central France, and exceeding 70° in the west of France and many parts of southern Europe.

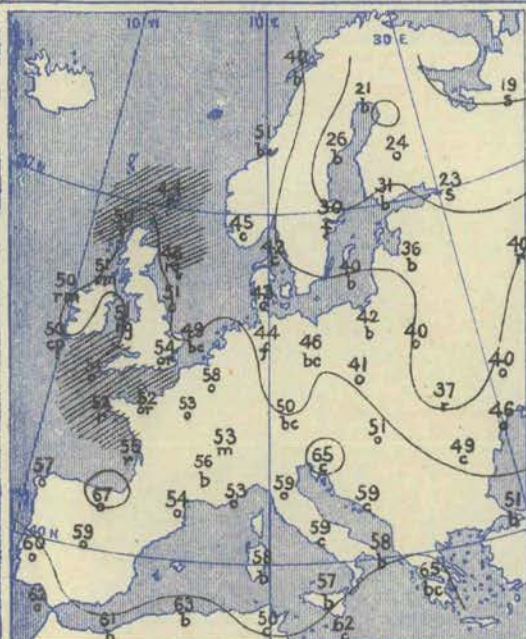
Wind light to moderate from the Southward and South-Westward over the greater part of our Islands and the north of France, but South-Easterly at Valencia (Ireland); Easterly or South-Easterly in Norway and Denmark, with a gale at Skudesnaes; Northerly or North-Easterly over Sweden and northern Russia. Calm or variable over Italy and Austria; light from the North-Eastward over the Spanish peninsula and the extreme south of France. Subsequently increasing to a moderate gale from the Southward on our own south-west coasts; no important change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards in Lapland, 30.2 ins. and upwards in an anticyclone covering the greater part of northern Europe, and also in another system over Spain, France, western and southern Germany, Italy, and the western parts of the Mediterranean. Lowest, 29.6 ins. and less in a cyclonic area lying off our own extreme north-west coasts. New disturbance appearing later off the west of Ireland, and barometer falling briskly at all our own western stations.

Tuesday, 22nd April.

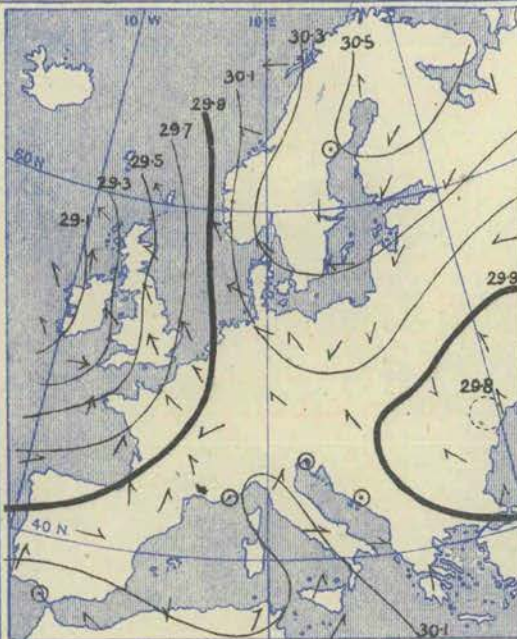
Temperature and Weather.

8 a.m.

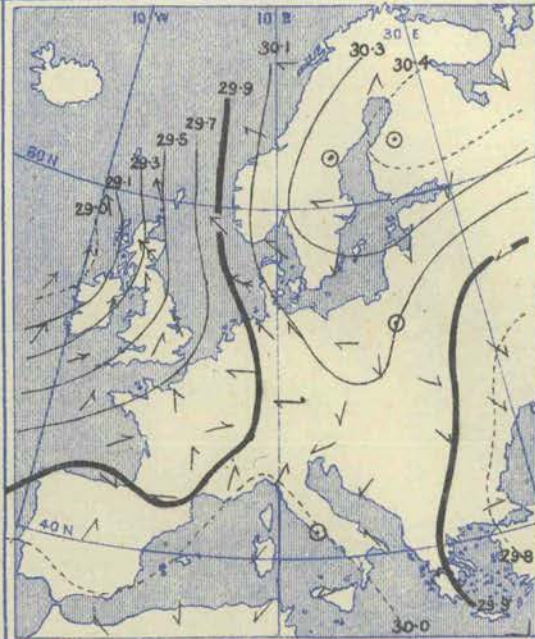


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very dull and rainy over the whole of the British Islands and the west and north of France, but still fine and bright over almost the whole of Continental Europe and the Mediterranean; fog at Cuxhaven, snow at St. Petersburg. Rain later over our Islands, France, Scandinavia, and a great deal of south Germany.

Temperature fallen decidedly over Finland and north Germany, changed little and not uniformly elsewhere. Morning readings ranging from 65° at Patras, 63° at Algiers, and 62° at San Fernando, to between 55° and 50° over the United Kingdom and south-west Germany, 44° at Cuxhaven and Sumburgh Head, 30° at Stockholm, 21° at Haparanda, and 19° at Archangel. Rising later to 36° at Haparanda, 60° at a few of our own stations, 70° at Belfort, 72° at Frankfurt, Marseilles, and Brindisi.

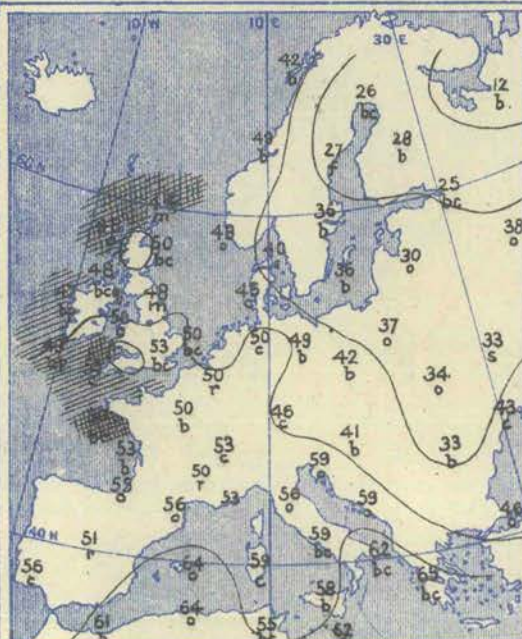
Wind South-Easterly to Southerly over the United Kingdom and west of France, and South-Easterly over the North Sea; blowing a strong squally wind in many places, and a moderate gale at Pembroke and Portland. North-Easterly to Easterly and light over Germany, very variable over the Mediterranean, Southerly over Greece and at Constantinople. Veering to the South-West and West in the southern parts of our Islands later, and blowing hard at several stations—but gale, though general, not severe.

Barometer in morning, highest, (1) 30.5 ins. and more to 30.2 ins. over Finland and northern Europe; (2) 30.1 ins. and more to 30.0 ins. over the northern parts of Africa, the Mediterranean, and the south of Spain. Lowest, (1) 29.2 ins. to 29.0 ins. over Ireland; and (2) 29.8 ins. or less in a shallower depression near Odessa. The western depression moving north-eastwards later, that over southern Russia dispersing.

Wednesday, 23rd April.

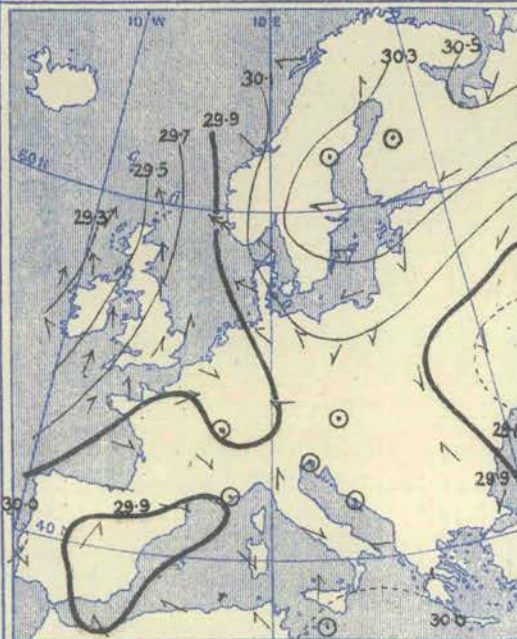
Temperature and Weather.

8 a.m.

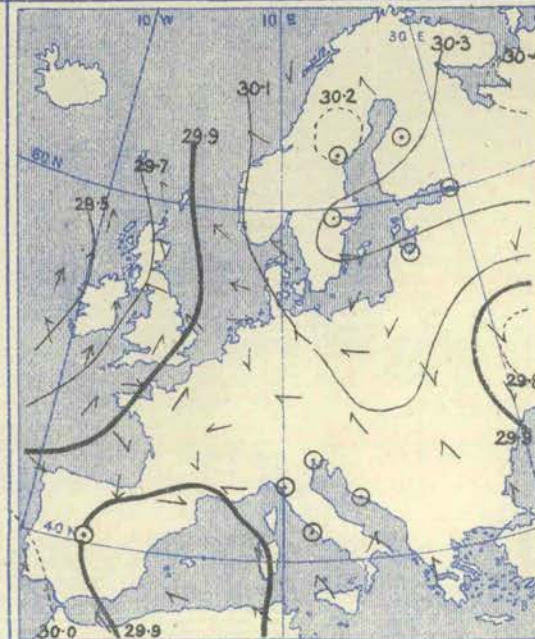


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of the United Kingdom and the north of France, but showery in the west of Ireland. Rainy over the Netherlands, and also in Spain and the south and east of France, dull over northern and central Italy, and also in the south of Russia, with rain at Nicolaieff and snow at Kiev; fine over Scandinavia, northern Russia, and the Baltic. Slight rain falling later at all our own western stations and in Germany, and larger quantities over the south of France and northern Italy; thunderstorm occurring at Malin Head, and thunder heard in the north of England.

Temperature fallen in most places. Morning readings, highest, 65° at Patras, 64° at Palma and Algiers, and 63° at Athens; above 55° in most parts of southern Europe and very little below it in London and over central Scotland. Lowest, 12° at Archangel, 25° at St. Petersburg and 27° at Helsingfors; below 40° over nearly the whole of Russia, Scandinavia and the Baltic. Rising during day to between 55° and 60° in most parts of the United Kingdom, and to 63° in London, exceeding 65° over southern Europe generally, and reaching 75° at Barcelona.

Wind Southerly over the whole of the United Kingdom and strong in force on many parts of our western coasts; South-Easterly and Easterly in Denmark and Norway, with a gale at Skudenes. Light from the North-Eastward over northern and central Russia; Northerly or North-Westerly in the south of Russia, calm in Austria, light and variable over the greater part of southern Europe. No important change occurring during day.

Barometer highest, 30.5 ins. and upwards in the extreme north of Russia; 30.0 ins. and upwards in an anticyclone covering the greater part of northern Europe. Lowest, 29.3 ins. and less in a cyclonic area off the west of Ireland; 29.7 ins. and less in another disturbance over the south of Russia. Depression off our own western coasts, subsequently moving away over the Atlantic, apparently in a north-westerly direction, and barometer rising in all parts of the United Kingdom. Cyclonic disturbance over the south of Russia growing somewhat deeper.

Thursday, 24th April.

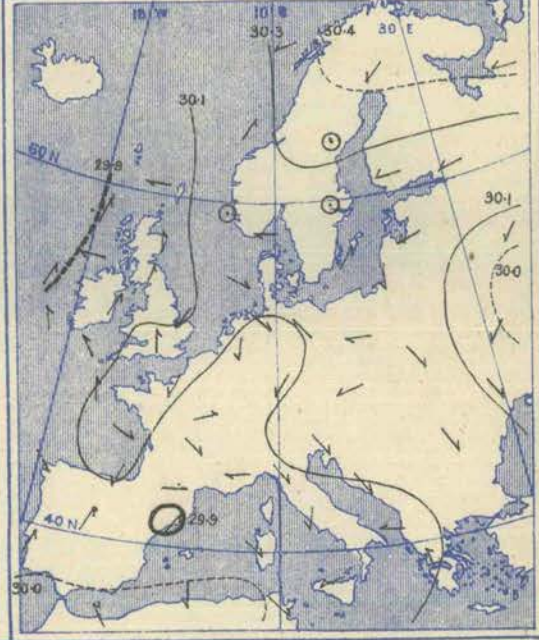
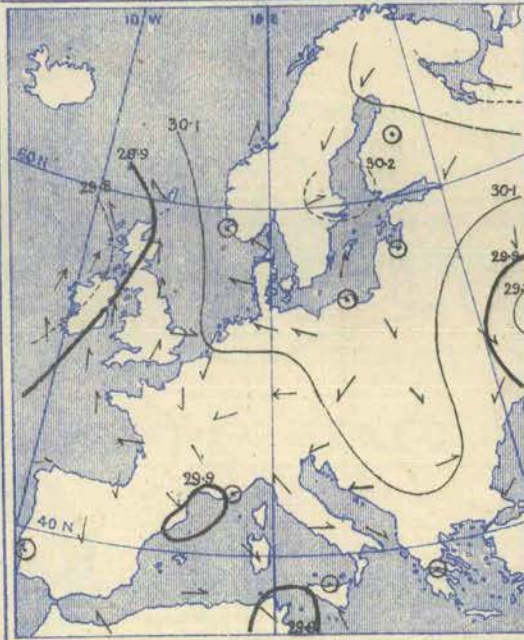
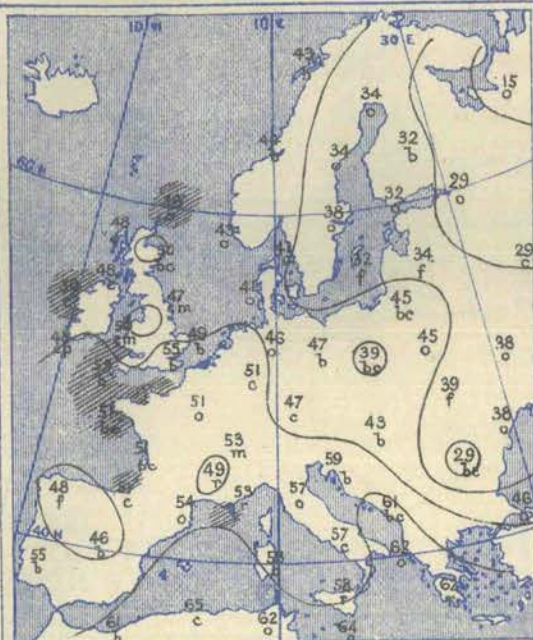
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fine over Europe as a whole, but showery at one or two of our own western stations, and rainy in the south of France, as well as Patras and Palermo. Dull in most parts of Sweden and Russia. Rain falling later over nearly the whole of southern Europe, heavily in the south of France, amount at Marseilles as much as 1.5 ins.

Temperature risen over Sweden, Russia and the Baltic, changed little and irregularly elsewhere. Morning readings, highest, 65° at Algiers, 64° at Malta and Oran, and 63° at Brindisi, Patras and La Calle; above 55° in most of the southern countries, and just touching that point in London. Lowest, 15° at Archangel, 23° at St. Petersburg, Moscow and Hermanstadt, and 32° at Hangö and Wisby; below 40° at nearly all the Russian and Swedish stations. Rising during day to 60° and upwards in many parts of the United Kingdom, to 65° in Paris and to 66° in London, exceeding 65° over nearly the whole of Italy and the Spanish peninsula, the highest reading reported being 72° at San Fernando.

Wind Southerly over our Islands and the neighbouring parts of the Continent; light and moderate in force generally but strong in the north-west of Ireland, light from the Eastward and South-Eastward in Denmark and Germany, and from the North-Eastward in Sweden, as well as in some parts of northern Russia; North-Westerly in the south of Russia. Light and variable over the whole of southern Europe. No important change occurring during day.

Barometer highest, 30.4 ins. and upwards in the extreme north of Russia; 30.1 ins. and upwards in an anticyclone covering the whole of northern and central Europe. Lowest, 29.7 ins. and less in a cyclonic system over the south of Russia, 29.8 ins. and less in another disturbance lying off our own extreme western coasts. Russian depression partially filling up later; disturbance off our western coasts moving away over the Atlantic, apparently in a north-westerly direction.

Friday, 25th April.

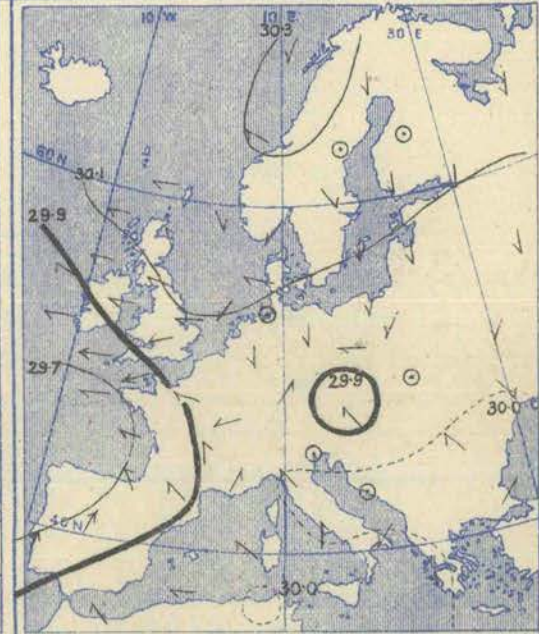
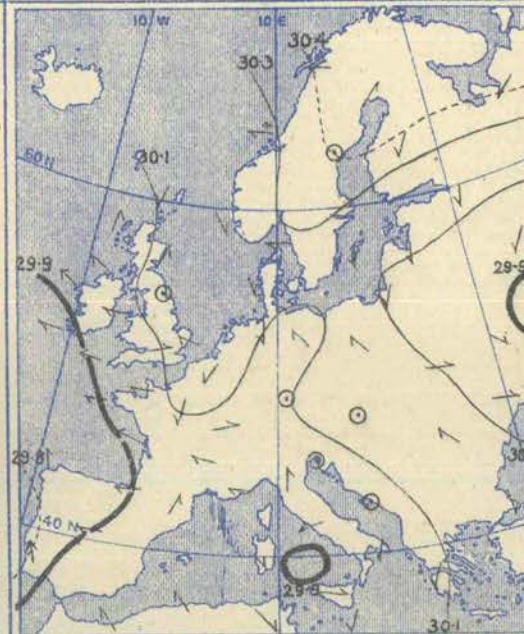
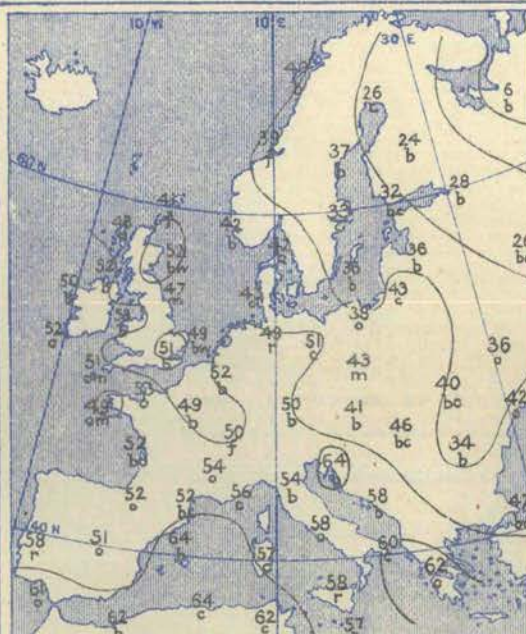
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fine and bright over the Mediterranean, France, Switzerland, and south Germany, also over the greater part of our Islands, Scandinavia, and northern Russia; dull and unsettled looking on our extreme south-west coasts, overcast over north Germany, with rain in places. Rain later very generally over the northern half of France, in Portugal and Spain, and smaller quantities in several parts of Germany. Weather over western Europe apparently changing greatly.

Temperature fallen over northern Europe, changes elsewhere not great, and lacking in uniformity. Morning readings, highest, 64° at Algiers, Trieste and Barcelona, and 60° or more at many stations on the southern side of the Mediterranean, 59° at Leghorn, 58° at Marseilles, 55° at Valencia, 51° at Scilly, 52° and 50° in the north and east of our Islands. Lowest, 6° F. at Archangel, 24° at Knapik, 25° at Moscow, and below the freezing point over Russia and Sweden. Rising later to 77° at Biarritz to between 67° and 60° in many other parts of France and the British Islands, but not reaching 50° over Scandinavia, and only 37° at St. Petersburg.

Wind very variable over northern, eastern, and central Europe. Easterly over the western and south-western parts of the British Islands and the western half of France; Northerly over Denmark. The Easterly wind in the west and south of our Islands spreading eastwards later, and freshening. Remaining light and variable over northern, eastern and central Europe.

Barometer in morning, highest, 30.4 ins. to 30.2 ins. over northern Europe and exceeding 30.1 ins. in a ridge over the North Sea and eastern Britain, as well as in a band stretching south-south-eastwards over western Germany and the Balkan peninsula. Lowest, (1) 29.8 ins. and less over Portugal, and less than 29.9 ins. over the Bay of Biscay and extreme south-west of Ireland; (2) 29.9 ins. and less over the south of Russia (near Kharkov). Rising later over northern Europe, falling decidedly over the Bay of Biscay and France.

Saturday, 26th April.

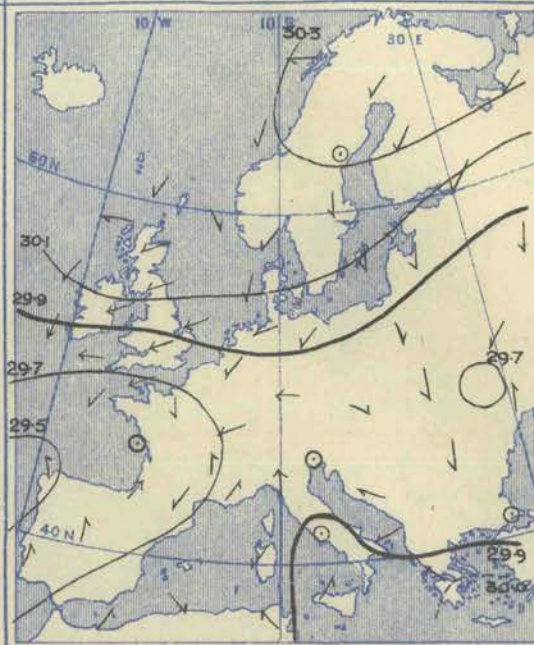
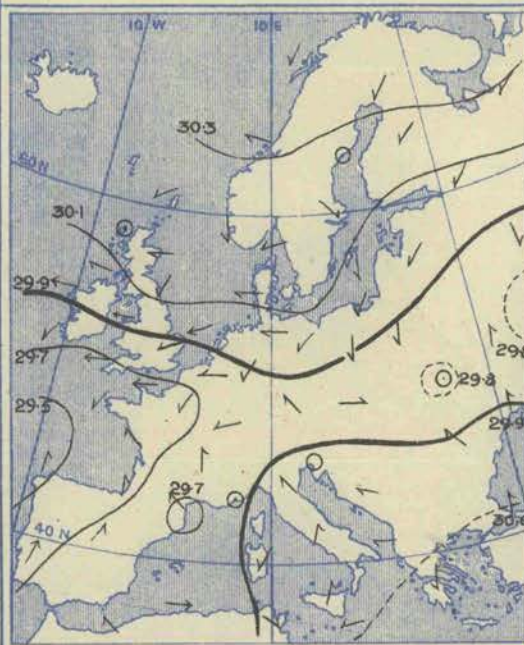
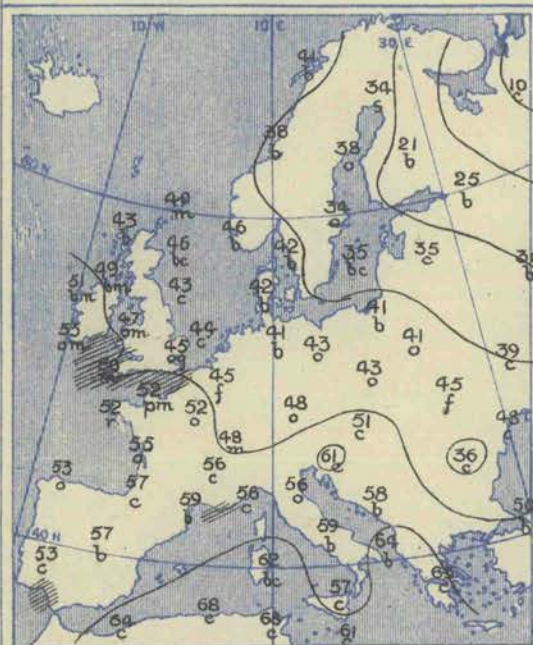
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over northern Europe and Scotland, dull over the south of England, rainy over the mouth of the Channel and north-west of France. Fog reported at Brussels and Marseilles; fine over Italy and the east part of the Mediterranean. Much rain later over the west and north of France, about the mouth of the English Channel, and in northern Italy; fine over the rest of western Europe.

Temperature fallen over the northern parts of the British Islands and north Germany, risen a little over France and still more over south Germany. Morning readings, highest, 68° at Algiers and La Calle; 64° at Brindisi, 61° at Trieste, 53° at Valencia, 50° at Parsonstown, Pembroke, and Portland Bill. Lowest, 10° at Archangel, 21° at Kuopio, 30° at Moscow, 38° at Faerder. Rising later to 57° in London, 62° at Valencia, 63° at Frankfurt.

Wind light at all the northern stations, and, for the greater part, North-Easterly in direction; Easterly over Ireland and England, strong and increasing over the southern counties and in the Channel, light to moderate from between North and East over Germany and France. Blowing hard over the south-east of England at night, and very strong from North-East on our south-western coasts also; Southerly over southern Europe, nearly calm over Finland and Scandinavia.

Barometer highest, (1) 30.3 ins. and more over the most northern countries, and ranging between that and 30.0 ins. over northern Europe generally; (2) exceeding 30.0 ins. over Greece and the Black Sea. Lowest, below 29.5 ins., over the western parts of the Bay of Biscay; and below 29.7 ins. over the south-east of Russia. Very little modification later, and changes apparently unimportant except in the north-east of France, where the barometer fell.

NOTE.—Owing to an accident on the part of the printers several figures were omitted from the Table of Bright Sunshine on the front page of last week's report. These omissions should be supplied as follows: Scotland E., eighth column "1"; Midland Counties, sixth column "8"; England S., seventh column "29"; Scotland W., fifth column, "279," and seventh column "24"; and England N.W., sixth column "+ 26."

Similarly in the issue for the week ending April 5th, the value under Rainfall, difference for the week, in England S., should read "2 less."

GENERAL NOTES.

At the commencement of this week, the barometer was highest (30.45 ins.) over Finmark, and thence a wide neck or "ridge" (in which readings exceeded 30.2) extended southwards to the Baltic and central Germany. Over the northern part of central Russia the barometer was lower (30.0 ins. and less), while to the westward pressure was as low as 29.43 ins. in the north-west of Ireland. Southerly winds were spreading in over the British Islands and blew very strongly in the west, while South-Easterly to Easterly breezes of moderate strength still held on the eastern shores of the North Sea. Steadily the high pressure area moved eastwards and a somewhat similar system appeared over France and Spain. The Southerly wind encroached a little more over north-western Europe and increased, but not regularly. A low

pressure area appeared over southern Russia. Wednesday found us with readings ranging from 30.5 ins. over the White Sea and 30.0 ins. over Austria, to 29.69 ins. at Kharkov and 29.29 ins. at Blacksod Point (north-west of Ireland).

The barometer was then falling over the Atlantic, near the Azores, and late on Thursday a fall set in over the Bay of Biscay, whence it spread eastwards to France and central Europe. This (with high and increasing northern pressures) brought about a spell of Easterly winds over the south of our Islands and north of France and a fall of temperature. At the close of the week these were strong and still increasing in force and, with few exceptions, fine dry weather was experienced wherever they prevailed.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 98.

STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNES	57.5	+ 21.1	55	+ 20	THURCASTON	47.3	+ 14.6	47	+ 14	BOURNEMOUTH	51.5	—	52	—
STRATHPEFFER SPA	42.3	+ 7.2	41	+ 7	MARGATE	42.2	+ 4.2	43	+ 4	SOUTHPORT	52.0	—	51	—
EDINBURGH	32.1	+ 1.1	31	+ 1	BROADSTAIRS	47.9	—	48	—	RHYL	57.7†	—	58†	—
MORPETH	52.2	—	52	—	EASTBOURNE	48.5	+ 5.3	49	+ 6	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	39.8	—	39	—	BRIGHTON	43.1	+ 0.3	44	+ 1	ABERDOVEY	58.9†	—	59†	—
YORK	—	—	—	—	WORTHING	44.0	—	44	—	TENEY	40.7	- 4.8	41	- 5
LOWESTOFT	56.2	—	57	—	BOGNOR	56.3†	—	57†	—	NEWQUAY	28.9	- 13.8	29	- 14
HOLLESLEY BAY	54.4	—	55	—	WATERGATE	38.3	—	39	—	TORQUAY	26.2	- 17.2	26	- 18
DUNMOW	43.2	—	44	—	WESTBOURNE	48.9†	+ 4.3	49†	+ 4	GUERNSEY	50.4†	+ 1.9	51†	+ 2
SHEFFIELD	42.6	—	43	—	VENTNOR HOSPITAL	39.5	- 6.1	40	- 6					
WORKSOP	46.3	+ 14.3	46	+ 14										

† The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 18.]
Fourth Series.

WEEK ENDING SATURDAY, MAY 3RD, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (see p. 104.)		Temperature of the Air.														
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.								
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.				
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	32	51.4	37.2	44.0	2 below	Day-deg. 34	Day-deg. 0	Day-deg. 13	Day-deg. + 1	Day-deg. 238	Day-deg. + 1	Day-deg. 607	Day-deg. + 68	
	1. SCOTLAND, EAST	60	28	52.2	35.8	43.6	3 below	37	- 5	17	+ 5	286	- 22	671	+ 76	
	2. ENGLAND, N.E.	59	30	52.0	38.0	45.1	1 below	39	- 2	11	+ 3	360	+ 46	491	- 5	
	3. ENGLAND, EAST	59	29	53.1	37.6	45.0	3 below	39	- 14	12	+ 4	423*	+ 29	482	- 62	
	4. MIDLAND COUNTIES	60	29	54.4	38.2	45.9	2 below	43	- 11	11	+ 2	456	+ 35	490	- 60	
5. ENGLAND, SOUTH	61	31	54.8	40.9	47.5	2 below	43	- 15	3	- 1	443	- 13	334	- 75		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	62	32	54.1	38.0	45.6	2 below	42	- 4	11	+ 4	352	+ 17	448	+ 27	
	7. ENGLAND, N.W.	56	28	52.9	39.7	46.0	2 below	38	- 10	6	0	376	+ 26	402	- 4	
	8. ENGLAND, S.W.	60	30	55.2	41.7	48.1	1 below	44	- 10	1	- 2	483	+ 17	309	- 5	
	9. IRELAND, NORTH	60	31	52.7	40.9	46.5	1 below	36	- 11	3	- 3	375	- 32	328	- 30	
	10. IRELAND, SOUTH	61	33	55.2	42.9	48.8	1 below	48	- 7	0	- 3	522	- 6	232	- 32	
	—CHANNEL ISLANDS.	56	43	54.3	46.2	50.1	1 below	57	- 4	0	- 1	656	+ 68	99	- 24	
DISTRICTS. (See p. 104.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 7	10ths of in. 1 more	90	+ 9	Ins. 18.0	+ 0.8	40	+ 4	37	+ 4	368	+ 30	25	+ 3
	1. SCOTLAND, EAST	4	4	1 less	68	+ 1	7.1	- 2.6	37	+ 1	35	+ 1	382	+ 4	28	0
	2. ENGLAND, N.E.	4	3	2 less	57	- 6	5.5	- 1.8	51	+ 17	49	+ 16	405	+ 29	29	+ 2
	3. ENGLAND, EAST	4	4	0 (average)	57	- 8	5.0	- 2.2	55	+ 13	54	+ 13	461	- 2	31	0
	4. MIDLAND COUNTIES	4	4	1 less	55	- 6	6.9	- 1.4	50	+ 14	49	+ 13	384	+ 18	30	+ 1
5. ENGLAND, SOUTH	3	3	1 less	50	- 10	6.6	- 2.2	49	+ 2	48	+ 2	458	- 16	31	- 2	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	7	1 more	80	+ 9	16.9	- 0.1	53	+ 13	51	+ 12	372	- 11	28	0
	7. ENGLAND, N.W.	5	6	1 more	71	+ 6	9.1	- 1.1	58	+ 18	56	+ 18	447	+ 58	33	+ 5
	8. ENGLAND, S.W.	4	2	3 less	63	- 6	9.6	- 3.7	45	- 1	44	- 2	418	- 50	31	- 3
	9. IRELAND, NORTH	5	5	0 (average)	86	+ 10	11.9	+ 1.2	55	+ 17	53	+ 16	408	+ 26	30	+ 2
	10. IRELAND, SOUTH	4	3	4 less	69	- 4	11.9	- 1.9	54	+ 12	52	+ 12	429	- 6	32	0
	—CHANNEL ISLANDS.	4	2	3 less	69	- 4	9.3	- 1.5	45	- 7	44	- 7	460	- 83	32	- 6

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather at the commencement of the week was fine and bright except on our most south-western coasts, but later on it became very showery. Thunderstorms, accompanied by hail, were experienced in several parts of southern, central, and eastern England on Saturday.

Temperature was below the mean, the deficiency ranging from 1° or 2° in most districts to 3° in Scotland E. and England E. The highest of the maxima were recorded during the latter half of the week, and varied from 62° in Scotland W. to 56° in England N.W. and the Channel Islands. The lowest of the minima occurred on rather irregular dates, and were low generally for April. In Scotland E. and England N.W. the thermometer fell to 28°, in England E. and the Midland Counties to 29°, and in most other districts to between 30° and 32°. In the Channel Islands the lowest reading was 43°.

Rainfall was a little more than the mean in Scotland N. and W. and in England N.W., and just equal to the average in England E. and Ireland N. Elsewhere the fall was rather less than the normal.

Bright Sunshine exceeded the average in nearly all districts, but was a little less in England S.W. and the Channel Islands. The percentage of the possible duration ranged from 56 in England N.W., 54 in England E., and 53 or 52 in Ireland, to 37 in Scotland N., and 35 in Scotland E.

Barometer and Wind. During the earlier days of the week the barometer remained highest in the north, and strong Easterly and North-Easterly winds continued to blow over all our more southern districts. By Tuesday, however, the pressure had become highest over Ireland, and the wind gradually backed to the Northward and North-Westward and moderated. During the latter half of the period pressure was highest in the south-west, and a succession of small disturbances moving south-eastwards over our Islands and the North Sea caused the wind to vary between West and North-West or North, and at times to blow a very fresh and squally breeze. On Saturday the wind in Scotland, on the northern side of one of these depressions, shifted to the Eastward or North-Eastward and blew rather briskly.

DISTRICTS	NAMES OF STATIONS.	Temperature.							Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.							Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)							
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Inches.	Inches.				
0. SCOTLAND, N	Sumburgh Head	50	35	47.6	39.7	43.5	+ 1.3	20	6	0.42	- 0.02	*	*	*	*
	Stornoway	60	35	53.9	37.1	45.1	- 0.3	42	14	0.77	+ 0.20	53.9	+ 14.4	50	+ 13
	Wick	55	32	50.3	37.0	43.3	- 2.1	30	14	0.54	+ 0.14	*	*	*	*
	Lairg	56	33	51.1	34.8	42.6	- 2.9	34	20	1.34	+ 0.20	*	*	*	*
	Glencarron	55	32	52.5	36.1	43.9	- 2.8	38	17	0.44	- 0.03	34.6	+ 5.9	33	+ 6
	Fort Augustus	57	35	53.2	38.2	45.3	- 1.9	39	11	0.54	- 0.27	30.5	+ 3.5	37	+ 3
1. SCOTLAND, E	Fort William	55	31	53.1	35.4	43.8	- 2.7	40	18	0.51	+ 0.16	*	*	*	*
	Nairn	56	34	50.9	37.7	44.0	- 1.7	32	12	1.12	+ 0.06	26.3	- 13.2	25	- 12
	Aberdeen	55	28	48.5	33.1	40.4	- 2.9	18	33	0.30	- 0.21	*	*	*	*
	Braemar	60	32	54.9	35.1	44.5	- 2.8	46	19	0.11	- 0.42	*	*	*	*
	Ochertyre-	60	38	54.1	39.7	46.6	- 1.7	42	6	0.17	- 0.18	*	*	*	*
	Leith	58	30	51.6	34.0	42.4	- 3.0	36	22	0.26	- 0.28	49.5	+ 12.3	47	+ 12
2. ENGLAND, N.E.	Marchmont	59	30	57.0	35.2	45.6	+ 0.3	54	19	0.20	- 0.27	*	*	*	*
	Alnwick Castle	58	31	52.2	35.7	43.6	- 2.5	38	18	0.19	- 0.25	53.8	+ 20.2	51	+ 17
	Durham	58	36	52.1	39.6	45.6	- 0.2	35	7	0.25	- 0.11	*	*	*	*
	Shields	56	33	51.3	38.0	44.3	- 2.2	33	11	0.29	- 0.14	57.7	—	55	—
	Scarborough	54	39	51.3	41.9	46.4	- 0.4	31	0	0.41	+ 0.07	*	*	*	*
	Spurn Head	59	30	53.7	37.6	45.3	- 2.4	42	12	0.17	- 0.23	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	58	29	53.4	36.4	44.5	- 3.6	41	16	0.66	+ 0.26	54.0	+ 12.6	52	+ 12
	Hillington	55	35	50.3	39.6	44.7	- 2.4	29	7	0.37	- 0.01	*	*	*	*
	Yarmouth-	57	31	52.8	37.1	44.6	- 3.2	39	14	0.49	+ 0.13	59.0	+ 15.0	58	+ 16
	Geldeston	59	31	56.5	36.3	45.9	- 3.3	51	16	0.25	- 0.12	54.7	+ 13.2	54	+ 14
	Cambridge	56	35	51.4	40.0	45.4	- 2.4	32	6	0.31	—	50.7	—	50	—
	Felixstowe	57	29	53.9	36.4	44.7	- 3.3	42	16	0.40	- 0.05	50.2	+ 10.5	49	+ 11
4. MIDLAND COUNTIES	Rothamsted	58	32	55.9	36.3	45.6	- 2.8	49	16	0.21	- 0.21	*	*	*	*
	Bawtry (Hesley Hall)	60	30	54.7	37.7	45.8	- 3.2	45	12	0.18	- 0.24	*	*	*	*
	Loughborough	57	35	54.1	38.3	45.8	- 2.8	42	10	0.37	—	*	*	*	*
	Colly Weston (Stamford)	56	33	52.8	37.4	44.7	- 2.2	38	13	0.36	- 0.13	*	*	*	*
	Cheadle	59	35	53.5	39.1	46.0	- 1.6	40	8	0.25	- 0.23	47.1	—	46	—
	Birmingham (Mid. Inst. Obs.)	56	29	52.5	37.7	44.7	- 2.2	37	12	0.94	+ 0.50	52.5	+ 13.2	51	+ 13
5. ENGLAND, S.	Churchstoke	58	32	56.1	39.5	47.4	- 1.6	48	7	0.41	- 0.00	*	*	*	*
	Hereford	57	34	54.0	37.6	45.4	- 2.2	42	12	0.32	- 0.13	54.0	+ 12.7	53	+ 13
	Cirencester	58	34	55.6	39.9	47.4	- 1.8	47	6	0.33	- 0.06	51.4	+ 11.7	50	+ 11
	Oxford	58	35	56.3	40.0	47.8	- 2.6	49	6	0.70	+ 0.32	43.9	+ 8.6	43	+ 9
	London	59	31	54.9	38.0	46.0	- 1.7	45	11	0.47	+ 0.03	*	*	*	*
	Swarraton (Alresford)	58	36	53.9	42.3	47.8	- 0.9	41	0	0.06	- 0.24	54.5	—	53	—
6. SCOTLAND, W.	Dungeness	57	38	53.9	41.6	47.5	- 1.7	40	1	0.13	- 0.27	54.7	+ 8.0	54	+ 8
	Hastings (St. Leonards)	61	35	57.7	41.7	49.3	- 1.0	52	1	0.37	- 0.07	40.2	- 4.0	39	- 4
	Southampton	56	36	53.3	43.3	48.1	- 1.7	43	0	0.18	—	*	*	*	*
	Portland Bill	55	33	53.3	39.2	45.9	- 2.3	39	8	0.24	- 0.29	*	*	*	*
	Shaftesbury	57	35	53.4	37.9	45.3	- 2.2	40	11	1.19	+ 0.34	*	*	*	*
	Laudale (Loch Sunart)	54	36	51.2	38.3	44.4	- 2.6	32	10	0.39	- 0.12	39.2	+ 5.4	37	+ 5
7. ENGLAND, N.W.	Glasgow	62	32	58.4	35.3	46.3	- 1.2	58	19	0.56	- 0.06	*	*	*	*
	Cally	57	33	53.2	40.3	46.4	- 0.9	38	5	0.57	+ 0.04	66.2	+ 19.8	64	+ 19
	Douglas (Isle of Man)	56	28	54.3	35.1	44.2	- 1.4	44	19	0.38	—	58.9	—	56	—
	Newton Reigny	54	32	51.8	38.4	44.8	- 2.6	35	10	0.96	+ 0.39	56.9	+ 17.9	55	+ 18
	Stonyhurst	56	32	52.7	39.8	45.9	- 2.2	37	6	0.48	+ 0.03	64.8	+ 25.0	62	+ 24
	Blackpool	56	36	53.1	39.1	45.8	- 1.6	39	8	0.94	+ 0.46	50.7	—	49	—
8. ENGLAND, S.W.	Manchester (Prestwich)	55	37	52.6	40.7	46.4	- 2.4	36	4	0.50	+ 0.11	52.4	—	51	—
	Liverpool Obs. (Bidston)	56	33	53.6	39.7	46.3	- 2.9	40	6	0.32	—	*	*	*	*
	Chester	55	36	53.1	42.5	47.6	- 1.4	39	0	0.61	+ 0.19	51.9	+ 11.4	50	+ 11
	Llandudno	55	38	51.7	42.4	46.8	- 1.8	34	0	0.47	+ 0.03	*	*	*	*
	Holyhead	60	33	56.0	40.6	47.9	- 0.7	47	4	0.40	- 0.22	*	*	*	*
	Llandovery	57	38	53.3	42.1	47.4	- 0.8	38	0	0.11	- 0.33	42.9	- 3.4	42	- 3
9. IRELAND, N.	Pembroke	59	35	56.6	42.3	49.1	0.0	50	0	0.20	- 0.32	*	*	*	*
	Clifton	59	34	57.0	41.4	48.8	- 0.7	50	2	0.18	—	51.6	—	51	—
	Bath	54	34	52.4	40.3	46.1	- 1.3	36	5	0.44	- 0.21	*	*	*	*
	Arlington (N. Devon)	59	30	56.2	41.0	48.2	- 2.0	48	3	0.35	- 0.17	38.4	- 2.3	38	- 2
	Cullompton	56	36	54.3	43.4	48.6	- 1.0	46	0	0.16	- 0.46	45.4	- 2.3	45	- 2
	Falmouth	57	38	55.8	42.8	49.0	- 1.5	49	0	0.10	- 0.40	41.6	- 3.2	41	- 3
10. IRELAND, S.	Plymouth	52	41	50.0	43.3	46.5	- 1.1	32	0	0.32	—	*	*	*	*
	Malin Head	59	33	54.1	38.6	46.0	- 1.1	42	10	0.80	+ 0.25	*	*	*	*
	Edenfel (Omagh)	54	37	52.1	42.3	47.0	- 1.8	35	0	0.55	—	*	*	*	*
	Blacksod Point	57	31	54.5	39.9	46.9	- 0.6	43	6	0.57	+ 0.01	52.7	+ 14.7	51	+ 14
	Markree Castle	60	35	54.6	39.6	46.7	- 0.7	43	7	0.47	- 0.02	57.5	+ 20.3	55	+ 19
	Armagh	53	39	51.1	41.6	46.1	- 1.6	30	1	0.40	- 0.06	*	*	*	*
CHANNEL ISLANDS	Donaghadee	60	37	54.8	43.9	49.1	- 0.4	50	0	0.20	- 0.16	48.9	+ 5.9	47	+ 6
	Dublin	59	36	54.9	41.4	47.8	- 0.9	43	2	0.34	- 0.16	56.4	+ 17.8	55	+ 18
	Parsonstown	59	37	55.0	43.0	48.7	- 0.5	47	0	0.21	- 0.29	*	*	*	*
	Kilkenny	57	39	55.0	43.9	49.2	- 0.9	50	0	0.06	- 0.64	*	*	*	*
	Roche's Point	57	35	54.1	43.0	48.3	- 1.8	44	0	0.23	- 0.55	55.9	+ 12.9	55	+ 13
	Valencia	61	33	57.6	41.1	49.0	- 0.4	53	3	0.32	- 0.42	*	*	*	*
CHANNEL ISLANDS	Killarney	61	35	55.2	44.1	49.4	+ 0.4	52	0	0.31	- 0.25	*	*	*	*
	Foynes	56	44	54.6	46.0	50.1	- 0.1	57	0	0.20	- 0.24	46.5	—	46	—
CHANNEL ISLANDS	Scilly (St. Mary's)	56	43	53.9	46.4	50.0	- 1.2	56	0	0.12	- 0.32	40.3	- 10.3	40	- 10
	Jersey														

Stations marked *fl* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

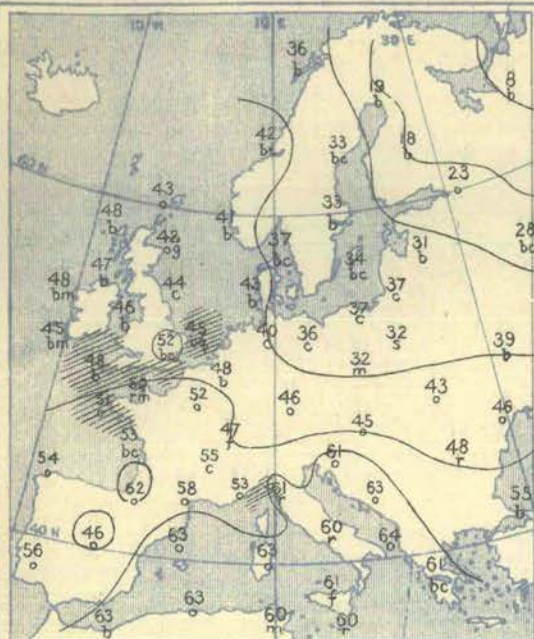
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 27th April.

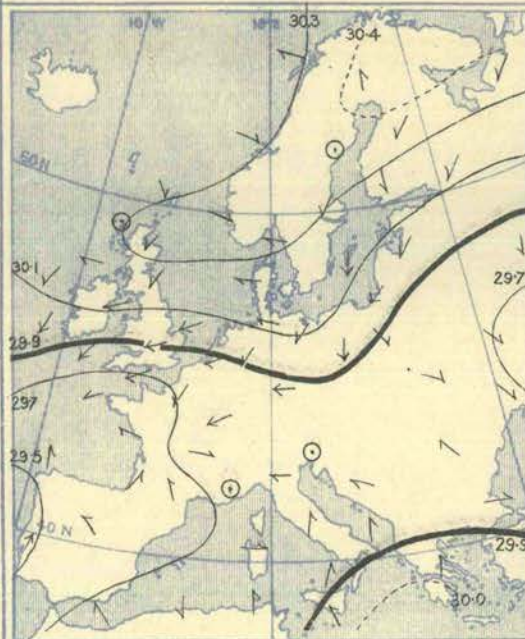
Temperature and Weather.

8 a.m.

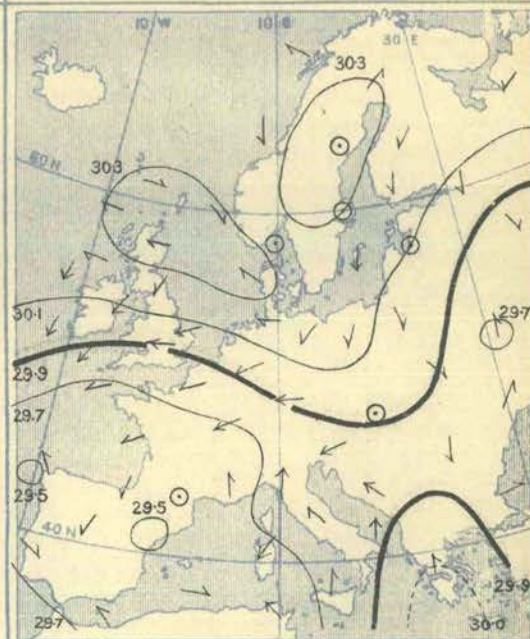


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over south Germany and the greater part of France, rainy at several stations in the English Channel, very fine over the British Islands and northern Europe. Very considerable rain later over the Channel, many parts of France, the north of Italy, Switzerland, Austria, and Transylvania; much sunshine in Scotland, Ireland, and over our southern counties.

Temperature fallen several degrees over northern and central Europe and in Ireland; not differing much over England and France from that of yesterday morning, but diurnal range great. Morning readings varying from 64° at Brindisi and Oran, and more than 60° at many of the south European stations, to between 50° and 40° over the English Channel, 36° at Berlin, 19° at Haparanda, and 8° at Archangel. Rising later to 81° at La Calle, 72° at Oran, 55° at Paris, 55° to 50° over many parts of the British Islands, 32° at Haparanda and 27° at Hérnösand.

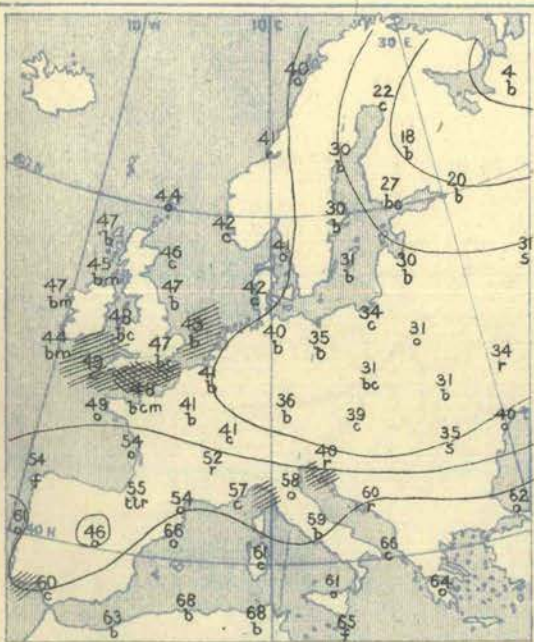
Wind. Calm in Scotland, Westerly in the west of Norway; North-Easterly to Easterly over almost all the northern half of Europe, and blowing hard in the Channel and south of England; Easterly to Southerly in the south and over the Mediterranean and of moderate strength. A gale and sharp squalls experienced later in the south-east and east of England, no decided change elsewhere. [The winds reported at Tunis and Cagliari (6 p.m.) appear doubtful.]

Barometer in morning, highest, (1) 30.43 ins. at Haparanda, 30.3 ins. and more over Scotland and nearly the whole of Scandinavia and Finland; (2) 30.0 ins. and more over the south-eastern part of the Mediterranean. Lowest, 29.5 ins. and less over Portugal on the one hand, and 29.6 ins. at Kharkov on the other. The northern high pressure area becoming more complex later, and that over the Mediterranean extending to Greece; the low pressure areas over the peninsula and south of Russia increasing in size.

Monday, 28th April.

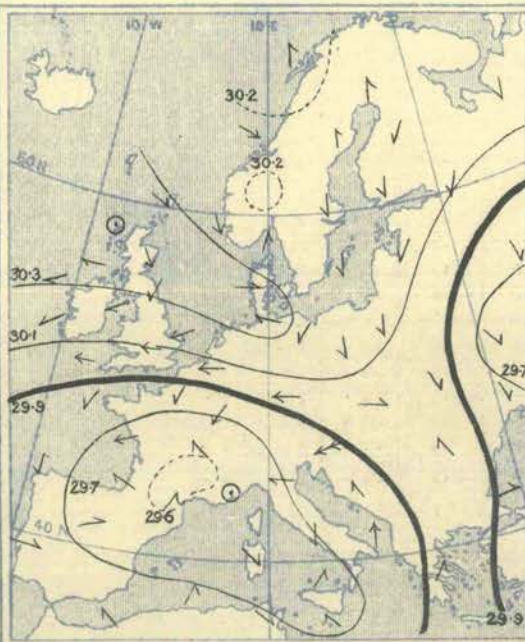
Temperature and Weather.

8 a.m.

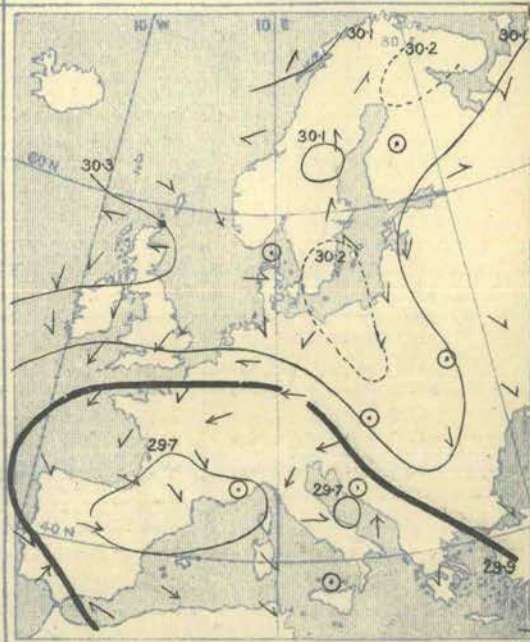


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the greater part of the British Islands and north-western Europe, but raining locally at Christiansund. Rain more general over the south of France, the north of Italy and the south of Russia; snow falling at Moscow. Rain later over southern and south-eastern Europe and over Scandinavia; amount of sunshine very great over the United Kingdom.

Temperature fallen somewhat over all the countries in the southern half of Europe, changed little and irregularly in the north. Morning readings highest, 68° at Algiers and La Calle, and much above 60° on many of the Mediterranean coasts, 49° at Scilly, 47° in the north of Scotland. Lowest, 4° at Archangel, 15° at Kuopio, 26° at Hangö, 30° at Breslau, 40° at Cuxhaven. Rising later to between 50° and 55° over England, to 60° at Stornoway, 71° at Naples, 77° at Malta, 81° at La Calle, not exceeding 36° in Lapland.

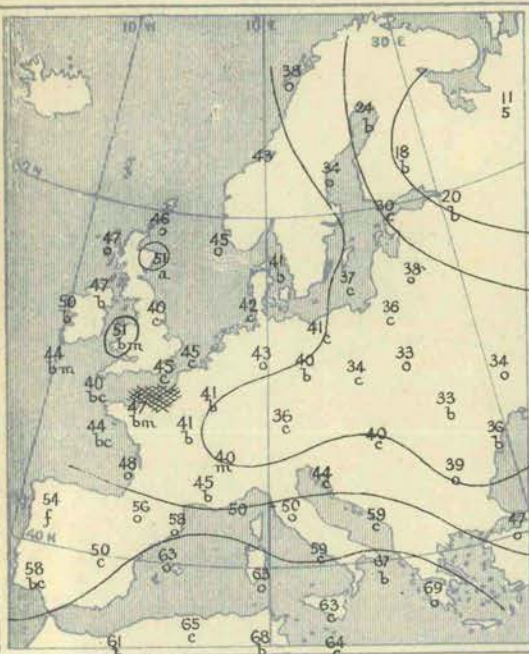
Wind still Easterly to North-Easterly over Ireland, England and the north of France, and blowing strongly in many places, nearly calm in Scotland, variable over Scandinavia; Northerly and light over Germany, North-Westerly in the south of Russia. An Easterly gale in Austria, South-Westerly airs on the Algerian coast. The Easterly winds moderating a little over our Islands later, and gale in Austria beginning to hulk.

Barometer in morning highest, 30.3 ins. and more to 30.2 ins. over Scotland and almost the whole of northern Europe, and 29.9 ins. and more over Greece. Lowest, 29.6 ins. and less, to 29.7 ins. over the south of France, the north-east of Spain and northern part of the Mediterranean, below 29.7 ins. over the southern half of Russia, and 30.13 ins. at Bodo. Depression in the south of France beginning to fill up later; new anticyclone forming over central Europe.

Tuesday, 29th April.

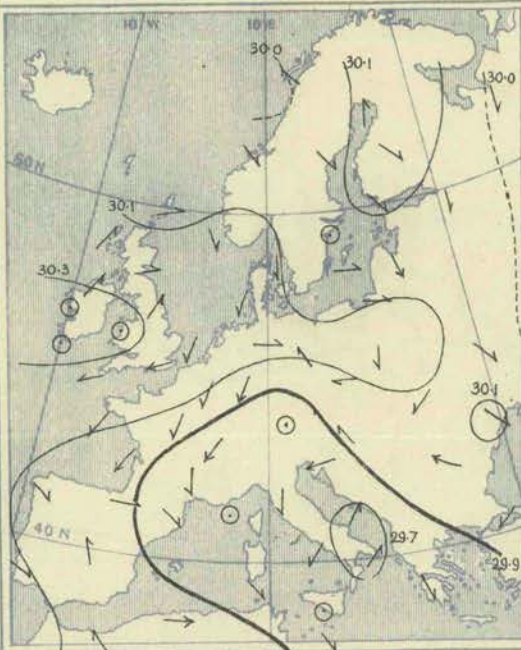
Temperature and Weather.

8 a.m.

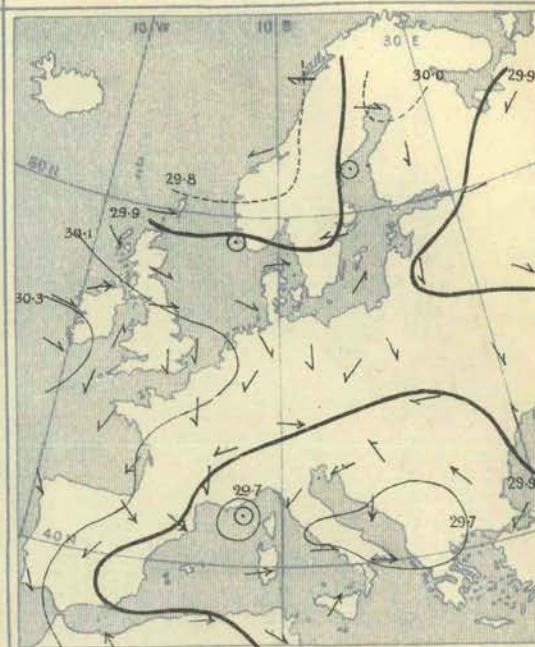


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of the United Kingdom, in Belgium and the north of France, cloudy or dull in most other parts of central and southern Europe, with rain over northern Italy and the south of France, as well as at Bodø and the Helder. Fine in Finland, but snow falling at Archangel. Slight rain falling later at all our own northern and at many of our western stations, as well as in some parts of Scandinavia; no important change occurring elsewhere.

Temperature risen in the north of our Islands and the northern and central parts of the Continent, fallen in northern Italy and the west and south of France, scarcely changed elsewhere. Morning readings highest, 69° at Patras, 68° at Palermo and La Calle, and 67° at Brindisi; above 55° over southern Europe generally. Lowest 11° at Archangel, 18° at Kuopio, 20° at St. Petersburg, and 24° at Haparanda; below 40° in most parts of Sweden, Russia and Austria. Daily maxima below 55° over the greater part of the United Kingdom, but thermometer reaching 59° at Parsonstown, 60° at Aberdeen; exceeding 65° in many parts of southern Europe, the highest readings reported 76° at Palermo and 73° at Brindisi.

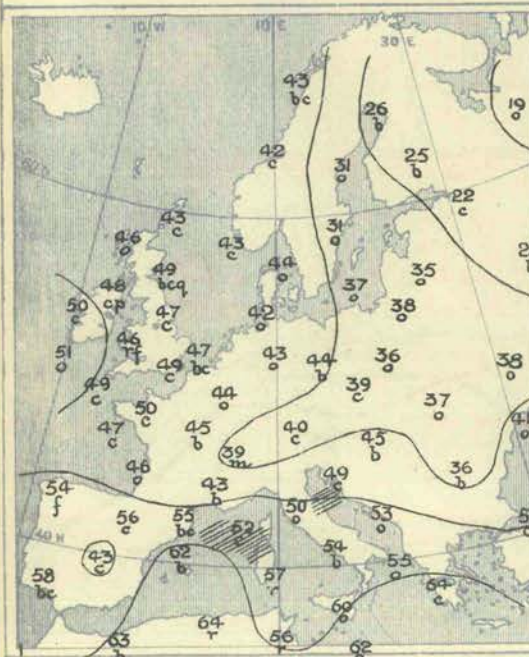
Wind light from the Westward or South-Westward over the northern parts of the United Kingdom, moderate to fresh from the Northward or North-Eastward on all our more southern coasts, as well as over the Netherlands and the greater part of France; Westerly or North-Westerly over the extreme south of France and the Spanish Peninsula, variable over northern Russia, North-Westerly or Westerly in Scandinavia; South-Easterly in Germany and Austria, variable in Italy and Greece. Subsequently veering to the North-Westward in the north of Scotland and blowing strongly in places.

Barometer highest, 30.3 ins. and upwards over Ireland and the Irish Sea; 30.1 ins. and upwards in an anticyclone lying over the whole of our Islands, the North Sea, Denmark, and north Germany. Lowest, 29.7 ins. and less in a cyclonic system with its centre over the southern part of the Adriatic. Cyclonic system subsequently moving eastwards, but new one appearing over Corsica and the Gulf of Genoa, and large shallow disturbance approaching the Norwegian coasts from the Westward.

Wednesday, 30th April.

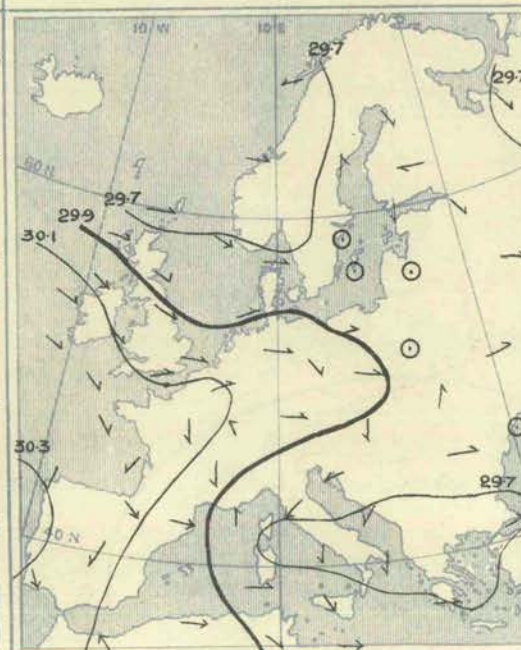
Temperature and Weather.

8 a.m.

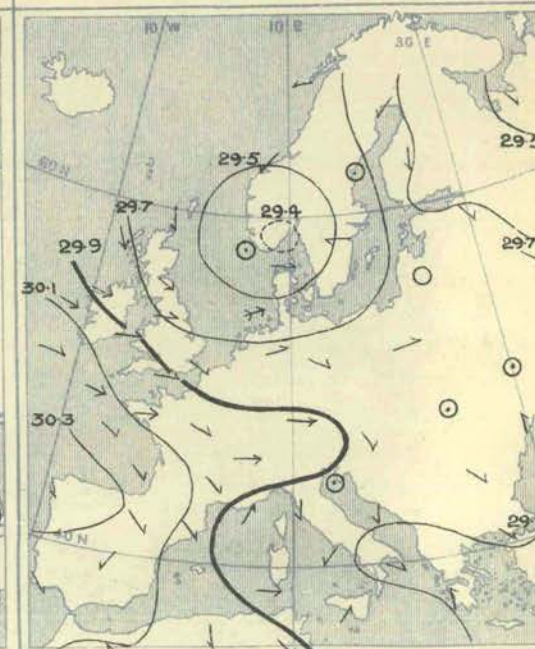


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, fine and bright over Finland, on the Portuguese coast, and at some French stations, rain falling over north-western and central England and also at Rome and Cagliari. Rain subsequently in almost all parts of our Islands, Germany, France and southern Europe, as well as in some northern regions, but amounts not large except at Wisby, Karlstad, Cuxhaven, and Naples.

Temperature fallen over Italy and Greece, risen over central Europe, Russia, and in Ireland. Morning readings, highest, 64° at Patras, Algiers and Oran; 62° at Barcelona and Malta. Lowest, 19° at Archangel, 22° at St. Petersburg, 26° at Haparanda, and 31° at Stockholm and Helsingfors; below 50° in all regions except the south-west of Ireland and the most southern countries, and only just touching that value at Florence and Rome. Rising during day to 55° at Shields, 66° at Marseilles, 73° at Palermo, and 77° at Nemours and La Calle.

Wind in morning moderate from the Westward over our Islands and their neighbourhood, from the Southward in the Gulf of Finland, and East-North-East at Bodø. A separate cyclonic movement of light to fresh winds prevailing over Italy and its vicinity. Light and variable breezes in Russia and eastern Europe generally, and moderate Northerly winds over the Iberian Peninsula. Wind veering somewhat over our Islands during day; no material change occurring elsewhere.

Barometer risen over France, the Spanish Peninsula and Algeria, fallen in other regions. Morning readings highest, 30.3 ins. and upwards in Portugal and over the adjacent portion of the ocean. Lowest, 29.6 ins. off the north-west of Norway, and below 29.7 ins. in an irregularly shaped cyclonic disturbance lying over Italy and south-eastern Europe. Norwegian low pressure system travelling south-south-eastwards later and growing deeper, and that over southern and south-eastern Europe moving slowly eastwards. Pressure continuing to decrease throughout north-western Europe.

Thursday, 1st May.

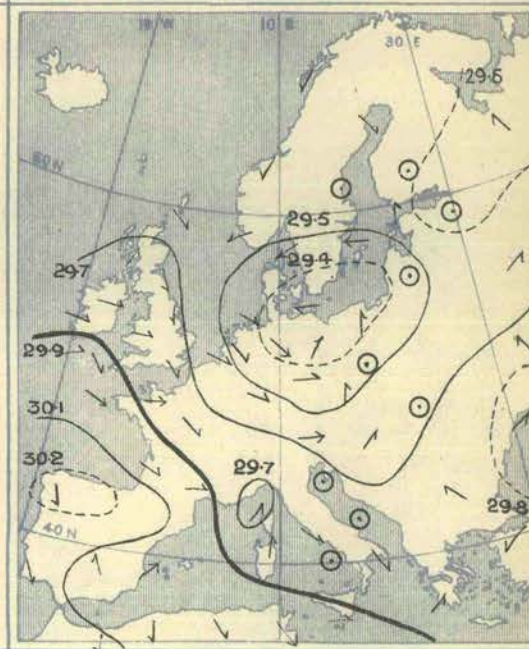
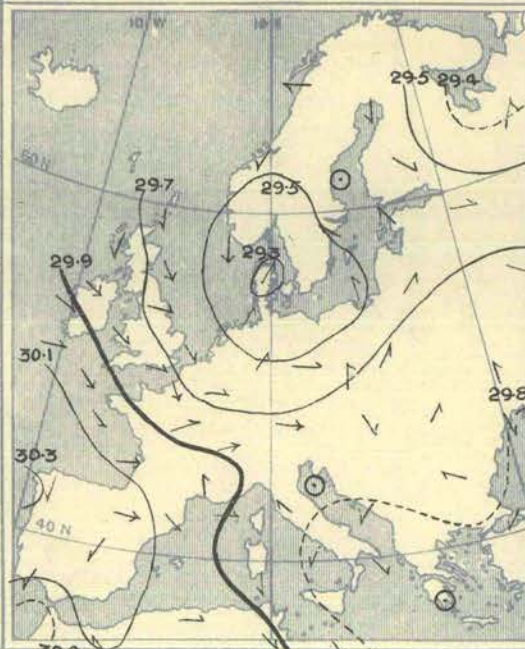
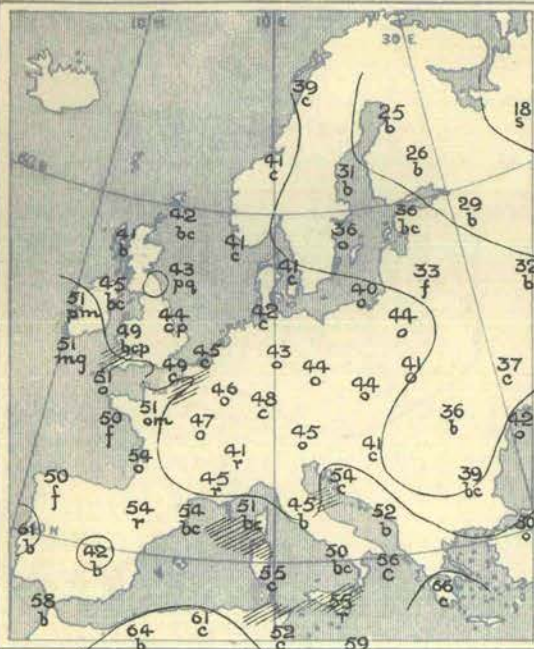
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in many parts of the southern and eastern countries, but cloudy over Europe as a whole; showers very general over the United Kingdom and steady rain reported at some of the southern French stations. Showers falling during the day over nearly the whole of north-western Europe, and snow at Stockholm.

Temperature fallen over the northern parts of the United Kingdom and in Norway, as well as in Spain and Italy, changed irregularly elsewhere. Morning readings, highest, 60° at Patras, 64° at Nemours, 63° at Athens, and 61° at Oran and Algiers; above 55° at many of the Mediterranean and Spanish coast stations. Lowest, 15° at Archangel, 24° at Uleaborg, 25° at Haparanda, and 26° at Kuopio; below 40° in most parts of northern Europe. Daily maxima below 50° at several of our own northern and eastern stations, but the mercurial exceeding 55° in the south of England and reaching 59° at Bath; exceeding 60° over southern Europe and touching 70° at Barcelona. Ground frosts occurring in many parts of Great Britain at night.

Wind light to moderate from the Eastward or North-Eastward in the west of Norway, and from the Northward in the north of Scotland; moderate to strong from the North-Westward over Ireland, England and the neighbouring parts of the Continent; Westerly over the southern parts of France and Germany; South-Westerly in Denmark and north Germany; Southerly or South-Easterly over the Baltic. Variable in Russia and Austria; Northerly in Italy, North-Easterly over the Spanish Peninsula. Subsequently backing to the Westward or South-Westward on our extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards over the north of Spain. Lowest, 29.3 ins. and less in a cyclonic disturbance with its centre over the Skager Rack; 29.4 ins. and less in another depression with its centre over the White Sea; and below 29.3 ins. in a large shallow area off Italy and south-eastern Europe. Disturbance in extreme north-east disappearing by evening, and that over Denmark moving south-eastwards to the Baltic. A new depression forming over the south-east of France and the north-west of Italy.

Friday, 2nd May.

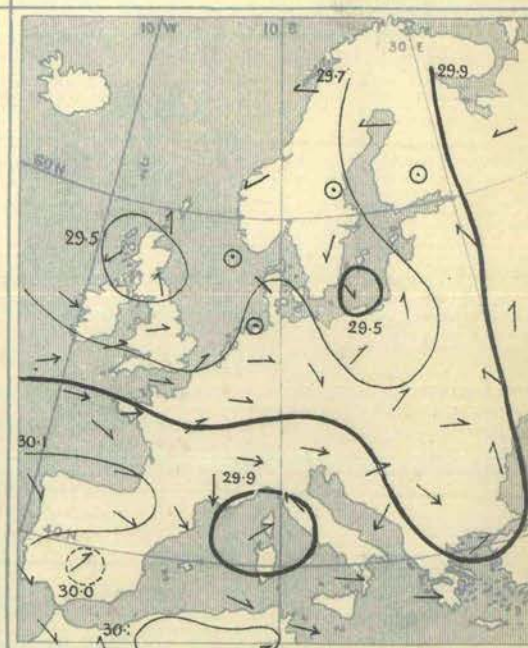
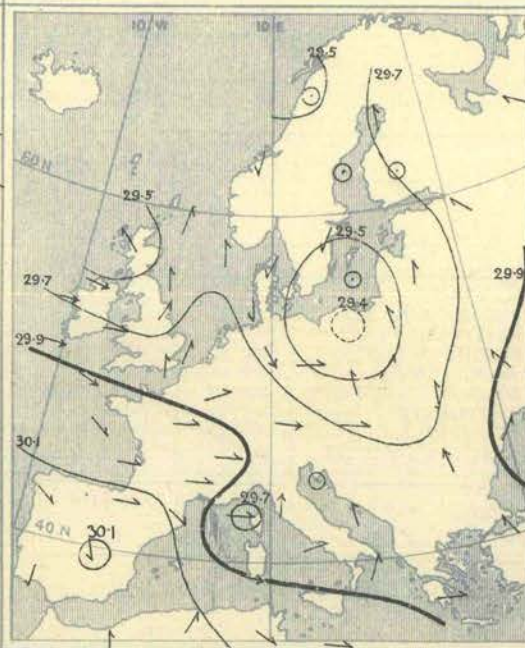
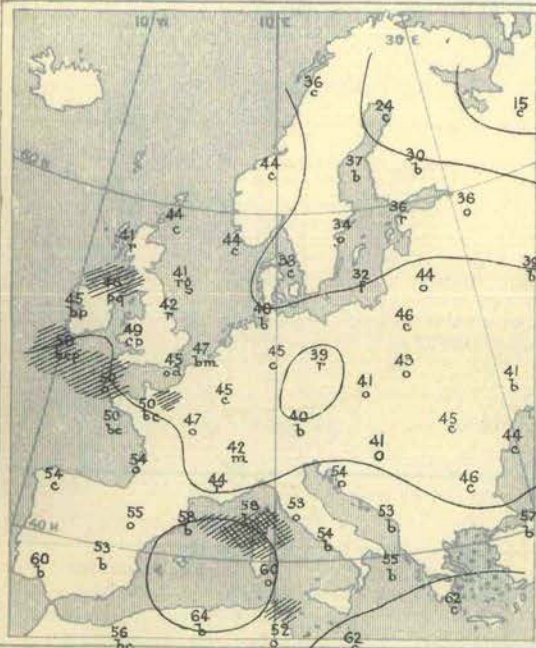
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning less settled generally than of late; still clear and bright in many parts of the Mediterranean, and in Scandinavia. Very dull over the British Islands, France and Germany, and rain falling at many places. Rainfall measured later in nearly all parts of the British Isles and Germany (0.9 in. at Aberdeen), as well as in the western parts of France, Italy, and in Norway; a thunderstorm at Spurr Head.

Temperature changed irregularly, but giving way over the United Kingdom. Morning readings highest, 61° at Algiers, 62° at Malta and Athens, 58° at Nice, Leghorn and Pesaro, 59° at Brest, Scilly and Valencia. Lowest, 15° at Archangel, 24° at Haparanda, 34° at Stockholm, 39° at Moscow, 41° at Kieff. Rising later to 73° at Lisbon, 70° at Athens, 68° in the south of France; to between 60° and 55° over England and 49° at Aberdeen and Malin Head.

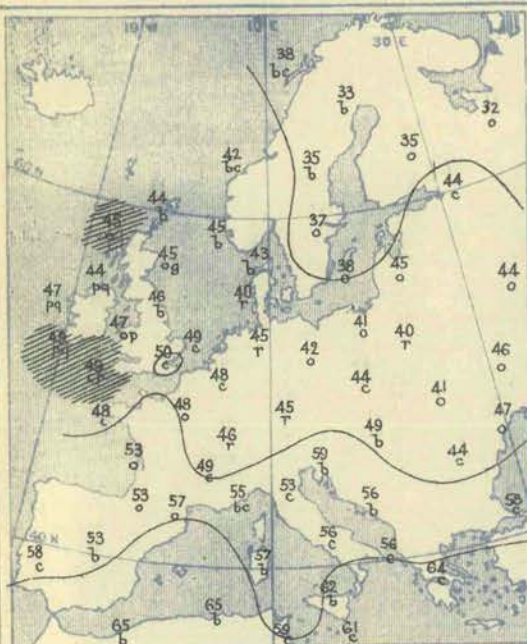
Wind very variable especially in direction, Westerly, strong, in Ireland, South-Easterly in the north of Scotland; Northerly in Norway and Denmark, Southerly over the Baltic provinces; Westerly light over France, variable and strong to light over the Mediterranean. Fresh from North and North West in the south of France later, not much change in the British Islands.

Barometer at 8 a.m. highest, 30.1 ins. and more over the Spanish Peninsula and west of France, 30.0 ins. to 29.9 ins. over the southern half of Russia. Lowest, 29.5 ins. and less in a depression advancing over Scotland, 29.4 ins. and less in another over the north coast of Germany; 29.7 ins. and less, in a third near Nice, apparently a fourth in a "hollow" over Turkey. The depressions moving very variously later and becoming much modified both in form and intensity; barometer still falling in the west of Ireland.

Saturday, 3rd May.

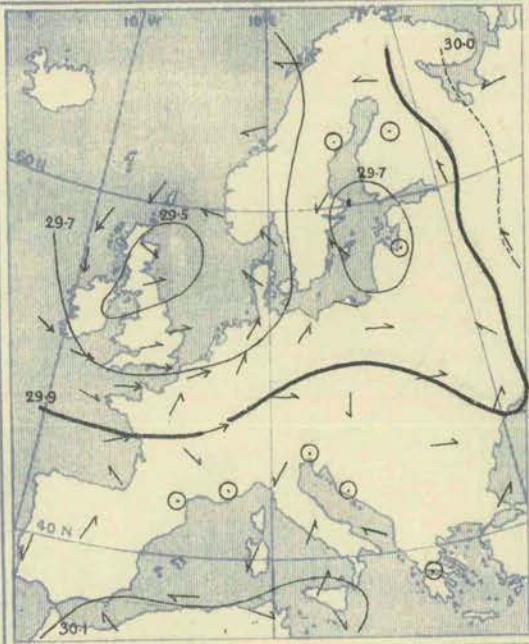
Temperature and Weather.

8 a.m.

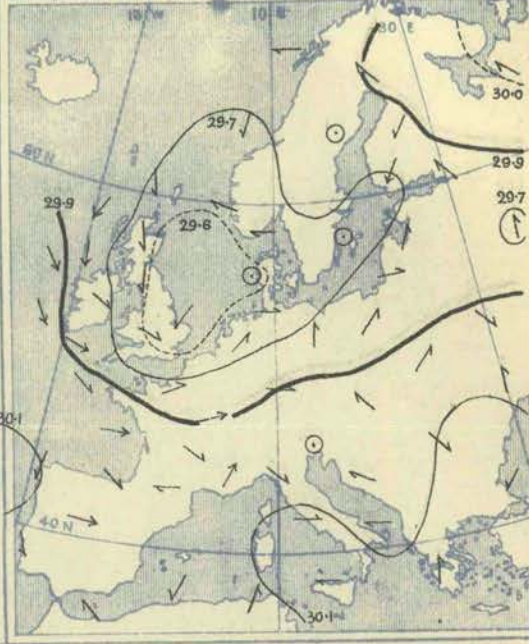


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very changeable and showery over north-western and central Europe, though temporarily clear in some places, fine over the north of Scandinavia and the Shetlands, as well as south-eastern Europe and the Mediterranean; dull over the Iberian Peninsula. Rain later over all parts of the British Islands and their neighbourhood and in Germany; thunderstorms in the east and south of England, hail in places. Bright sunshine still very considerable off our south-west coasts.

Temperature at 8 a.m. very little different from the average but tending to decrease. Morning readings highest, 65° at Algiers and Oran, and above 60° on the southern and western shores of the Mediterranean generally, 59° at Trieste, 53° at Rochefort, 49° at Scilly and Valencia, 45° at Aberdeen and Swinemunde. Lowest, 32° at Archangel and below 30° over the north of Russia, Lapland, and Finland.

Wind very light and mainly Easterly over northern Europe, North-North-East to North, fresh, over the northern parts of Scotland and Ireland, North-Westerly over our south-west coasts and Westerly over the south of England and greater part of France, Southerly, light, over Germany. Very variable and light over the Mediterranean and south-eastern Europe. The Northerly current in the north and west spreading later, and a North-Easterly wind setting in temporarily at Yarmouth.

Barometer in morning highest, 30.1 ins. and more over Algiers and exceeding 29.9 ins. over the whole of south-western and south-eastern Europe and nearly all of the Mediterranean, as well as over central and northern Russia. Lowest, 29.4 ins. to 29.6 ins. in a large shallow depression of irregular form lying over the North Sea and Great Britain. The depression moving south-eastwards later and developing a small secondary minimum over the south-east of England.

GENERAL NOTES.

At the commencement of this week an area of high pressure, in which readings exceeded 30.2 ins., covered the northern parts of Europe, with Scotland and the north of Ireland, its central area being over the northern part of the Gulf of Bothnia and the Kola Peninsula. Depressions (not deep) lay over the south of Russia and off the coast of Portugal and the gradients for North-Easterly winds were rather steep over the southern parts of the British Islands, the Netherlands, and north Germany. Gradually this high pressure system broke up, one portion moving south-westwards to the Atlantic; the depression near Portugal moved eastwards, while that over the south of Russia moved northwards. The Easterly wind in the south of England blew hard, but with dry, cold weather.

A new series of depressions then appeared off the west of Norway, spreading out and moving south-eastwards, and on Wednesday evening, when the anticyclone had reached the Atlantic (off the north-west of Spain), they assumed a more definite shape, and other low pressure systems appeared over south-eastern Europe. On Friday, May 2nd, the barometer being at the time highest over Spain, a new and well-formed depression came over Scotland from the north-westward, and subsequently developed, as its centre moved south-eastwards, various secondary systems over the British Islands, causing thunderstorms in many of our southern districts, squalls of wind, rain and hail in many places, with unpleasantly cold and inclement weather generally over north-western Europe. At the close of the week this system had reached the North Sea.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 104.

STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percent- age of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week
DEERNES	29.3	- 8.3	27	- 8	THURCASTON	55.3	+ 18.3	54	+ 19	BOURNEMOUTH	73.6	-	72	-
STRATHPEFFER SPA	41.2	+ 5.0	38	+ 4	MARGATE	53.4	+ 13.4	52	+ 13	SOUTHPORT	61.3	-	59	-
EDINBURGH	33.6	+ 0.4	32	+ 1	BROADSTAIRS	57.2	-	56	-	RHYL	†	-	†	-
MORPETH	50.5	-	48	-	EASTBOURNE	43.4	- 2.1	43	- 2	COLWYN BAY	-	-	-	-
NEWCASTLE-ON-TYNE	44.8	-	43	-	BRIGHTON	48.6	+ 4.0	48	+ 4	ABERDOVEY	63.8†	-	62	-
YORK	49.8	+ 13.5	48	+ 13	WORTHING	50.0	-	49	-	TENBY	47.7	+ 0.7	47	+ 1
LOWESTOFT	62.0	-	61	-	BOGNOR	45.3†	-	44†	-	NEWQUAY	39.7	- 5.3	39	- 6
HOLLESLEY BAY	59.8	-	59	-	WATERGATE	37.7	-	37	-	TORQUAY	45.7	+ 3.1	48	+ 3
DUNMOW	48.4	-	47	-	WESTBOURNE	41.0†	- 5.6	40†	- 6	GUERNSEY	47.6†	- 4.1	47†	- 4
SHEFFIELD	46.3	-	45	-	VENTNOR HOSPITAL	41.0	- 6.2	40	- 6					
WORKSOP	45.1	+ 10.6	44	+ 11										

† The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)									Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees)		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
Week ending March 29th, 1902.	Colly Weston	56	29	51.4	33.6	42.1	- 0.8	36	24	3	0.43	—	—	30.8	—	35	—
" April 5th "	Rhyl	58	30	52.4	37.0	44.3	- 0.6	37	14	4	0.10	—	—	34.8	—	39	—
" " 12th "	Bath	50	27	47.1	30.0	38.1	- 5.3	14	42	2	0.01	- 0.42	—	36.3	+ 3.5	39	—
" " 19th "	Rhyl	—	32	—	37.5	44.5	- 0.9	36	13	—	—	—	—	—	—	—	+ 4
	Churchstoke																
	Douglas																

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, MAY 10TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 110.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	27	48.8	34.6	41.3	5 below	Day-deg. 19	Day-deg. -20	Day-deg. 28	Day-deg. +18	Day-deg. 257	Day-deg. -19	Day-deg. 635	Day-deg. +86
	1. SCOTLAND, EAST	59	23	49.5	34.4	41.5	5 below	21	-26	29	+20	307	-48	700	+96
	2. ENGLAND, N.E.	55	29	48.6	36.3	42.1	5 below	25	-21	16	+11	385	+25	507	+6
	3. ENGLAND, EAST	55	30	50.2	35.0	42.1	7 below	30	-30	20	+14	453	-1	502	-48
	4. MIDLAND COUNTIES	54	29	50.5	35.2	42.4	7 below	31	-29	19	+13	487	+6	509	-47
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	57	31	51.9	36.1	43.5	7 below	35	-30	17	+14	478	-43	351	-61
	6. SCOTLAND, WEST	57	26	52.7	35.1	43.4	5 below	39	-13	19	+14	391	+4	467	+41
	7. ENGLAND, N.W.	55	30	49.6	37.2	43.0	6 below	27	-27	13	+9	403	-1	415	+5
	8. ENGLAND, S.W.	58	31	52.3	37.9	44.7	5 below	36	-24	11	+9	519	-7	320	+4
	9. IRELAND, NORTH	59	32	51.7	39.0	44.9	4 below	33	-19	8	+4	408	-51	336	-26
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	58	32	54.2	39.0	46.1	4 below	41	-19	8	+6	562	-26	240	-26
	-CHANNEL ISLANDS-	55	37	52.8	42.7	47.4	4 below	38	-20	0	0	694	+39	99	-24

DISTRICTS. (See p. 110.)		Rainfall.						Bright Sunshine.							
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 4	10ths of in. 2 less	95	+10	18.4	45	+8	40	+7	413	+39	29	+3
	1. SCOTLAND, EAST	6	6	1 more	74	+4	7.7	46	+7	42	+7	428	+11	30	+1
	2. ENGLAND, N.E.	5	4	0 (average)	62	-4	5.9	43	-2	40	-3	448	+27	29	+1
	3. ENGLAND, EAST	6	6	2 more	63	-5	5.6	44	0	42	0	505	-3	32	0
	4. MIDLAND COUNTIES	4	3	2 less	59	-5	7.2	40	+1	38	+1	424	+19	31	+2
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	5	3	1 less	55	-8	6.9	47	-3	45	-3	505	-18	32	-1
	6. SCOTLAND, WEST	4	3	3 less	84	+10	17.2	58	+16	54	+15	430	+5	29	0
	7. ENGLAND, N.W.	5	3	2 less	76	+8	9.4	55	+19	51	+18	502	+77	34	+5
	8. ENGLAND, S.W.	3	2	4 less	66	-6	9.8	67	+21	64	+20	485	-29	33	-2
	9. IRELAND, NORTH	5	3	2 less	91	+12	12.2	50	+10	46	+8	458	+37	31	+2
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	4	2	4 less	73	-3	12.1	53	+9	51	+10	482	+4	33	0
	-CHANNEL ISLANDS-	2	2	2 less	71	-5	9.5	73	+19	70	+18	533	-64	35	-4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was very changeable, intervals of bright sunshine alternating with frequent showers, generally of rain or hail in the south, and of rain, hail, or sleet in the north. Thunderstorms occurred in several parts of England on Wednesday, and in a few isolated localities, both before and after that day.

Temperature was again below the mean, the deficit ranging from 4° in Ireland and the Channel Islands, to 6° in England N.W., and to as much as 7° in England S. and E. and the Midland Counties. The highest of the maxima were recorded on rather irregular dates, and ranged from 59° in Scotland E. and Ireland N., to 54° in the Midland Counties. The daily maxima at our eastern, northern and north-western stations were frequently below 50°. The lowest of the minima were registered about the middle or end of the week. In Scotland E. (at Braemar) the thermometer descended to 23°, and in Scotland W. and N. to 26° and 27°, respectively, while in all other districts in Great Britain the minima ranged from 29° to 31°. In Ireland, however, the thermometer did not fall below 32°, and in the Channel Islands it only went to 37°. Ground frosts were of almost nightly occurrence at inland stations.

Rainfall was less than the mean generally, but slightly more in Scotland E. and England E., and just equal to it in England N.E.

Bright Sunshine considerably exceeded the normal amount over the Kingdom as a whole, but was somewhat deficient in England S. E. and N.E. The percentage of the possible duration ranged from 70 in the Channel Islands and 64 in England S.W., to 40 in Scotland N. and England N.E., and 38 in the Midland Counties.

Barometer and Wind. During the whole of this period pressure was highest to the westward, and lowest to the eastward or south-eastward of the United Kingdom. No depression of much importance appeared in our immediate neighbourhood, but numerous small systems passed southwards or south-eastwards over our Islands and the North Sea. The Northerly wind which consequently prevailed was generally light or moderate in force, but occasionally blew freshly or strongly on some parts of our north-western and western coasts. Quite at the end of the period the Northerly wind had died out in Scotland and Ireland, and had been replaced by a light and variable or South-Easterly breeze.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N	Sumburgh Head	48	32	46.4	35.3	40.5	- 3.4	12	24	6	0.24	- 0.19	*	*	*	*
	Stornoway	53	33	49.3	35.1	41.8	- 3.9	20	26	4	0.56	0.00	44.8	+ 4.2	40	+ 3
	Wick	53	28	48.6	32.7	40.2	- 5.7	18	34	5	0.36	- 0.04	*	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron	52	29	47.8	34.3	40.7	- 5.4	16	29	5	0.67	- 0.38	*	*	*	*
	Fort Augustus	56	27	50.0	34.5	41.8	- 5.7	22	29	5	0.40	- 0.07	28.3	- 0.9	26	- 1
1. SCOTLAND, E	Fort William	54	30	50.4	35.5	42.5	- 5.5	31	18	4	0.27	- 0.53	48.3	+ 10.5	44	+ 10
	Nairn	55	28	49.3	34.7	41.6	- 5.7	20	28	6	0.46	+ 0.11	*	*	*	*
	Aberdeen	50	33	47.4	35.7	41.2	- 5.5	15	23	7	0.69	+ 0.23	49.9	+ 8.8	45	+ 8
	Braemar	51	23	45.9	32.2	38.6	- 5.3	11	34	5	0.95	+ 0.44	*	*	*	*
	Ochertyre	59	29	54.3	34.6	43.9	- 4.0	44	21	5	0.21	- 0.33	*	*	*	*
	Leith	55	35	52.9	37.0	44.5	- 3.7	39	14	6	0.27	- 0.08	*	*	*	*
2. ENGLAND, N.E.	Marchmont	50	29	47.4	31.9	39.2	- 6.9	15	36	7	0.75	+ 0.22	54.5	+ 15.3	50	+ 14
	Alnwick Castle	55	33	51.6	35.4	43.0	- 3.1	35	18	4	0.29	- 0.18	*	*	*	*
	Durham	48	31	47.0	34.5	40.4	- 6.7	14	27	5	0.54	+ 0.10	39.1	+ 3.1	36	+ 1
	Shields	48	33	46.6	36.7	41.4	- 5.3	13	20	5	0.33	- 0.03	*	*	*	*
	Scarborough	49	33	47.6	37.4	42.2	- 5.3	21	13	6	0.45	+ 0.02	52.8	—	49	—
	Spurn Head	51	36	48.9	39.4	43.9	- 4.0	24	7	5	0.46	+ 0.10	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	52	29	50.1	34.2	41.7	- 7.3	23	30	6	0.29	- 0.12	*	*	*	*
	Hillington	51	31	50.2	34.9	42.1	- 6.9	31	20	6	0.65	+ 0.25	46.1	+ 1.2	43	+ 2
	Yarmouth	50	33	48.3	37.4	42.5	- 5.7	23	13	6	0.64	+ 0.25	*	*	*	*
	Geldeston	52	31	50.2	34.2	41.7	- 7.1	23	30	7	0.64	+ 0.27	41.9	- 5.1	40	- 4
	Cambridge	55	30	53.1	33.8	42.9	- 7.1	41	23	5	0.33	- 0.06	46.7	+ 3.0	44	+ 3
	Felixstowe	52	32	49.3	35.4	41.9	- 6.2	20	25	7	0.87	—	36.0†	—†	34†	—†
4. MIDLAND COUNTIES	Rothamsted	52	31	50.2	34.1	41.7	- 7.2	23	30	6	0.36	- 0.09	41.0	- 0.8	39	- 1
	Bawtry (Hesley Hall)	52	31	50.3	35.6	42.5	- 6.7	30	18	5	0.15	- 0.27	*	*	*	*
	Loughborough	53	29	50.3	35.3	42.4	- 7.5	31	19	4	0.23	- 0.21	*	*	*	*
	Colly Weston (Stamford)	54	32	51.4	35.0	42.7	- 6.9	34	20	6	0.20	—	*	*	*	*
	Cheadle	51	31	48.2	34.5	40.9	- 6.3	17	27	5	0.48	- 0.02	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	51	33	49.5	36.0	42.4	- 6.3	28	17	5	0.36	- 0.11	34.1	—	32	—
5. ENGLAND, S.	Churchstoke	52	30	50.0	34.3	41.7	- 6.1	22	29	4	0.45	+ 0.01	54.2	+ 12.4	51	+ 12
	Hereford	53	31	52.0	34.7	42.8	- 7.1	36	20	3	0.17	- 0.28	*	*	*	*
	Cirencester	53	32	51.1	34.7	42.4	- 6.3	33	20	1	0.03	- 0.43	47.1	+ 3.1	45	+ 4
	Oxford	54	32	52.1	36.3	43.7	- 6.5	36	16	5	0.17	- 0.22	37.4	- 4.2	36	- 3
	London	55	33	52.1	36.4	43.8	- 7.7	36	16	6	0.36	- 0.03	34.0†	- 4.0†	32†	- 4†
	Swarraton (Alresford)	54	31	50.9	34.2	42.1	- 6.4	33	22	6	0.37	- 0.06	*	*	*	*
6. SCOTLAND, W.	Dungeness	53	31	51.3	34.4	42.3	- 7.6	34	21	5	0.32	+ 0.02	42.6	—	41	—
	Hastings (St. Leonards)	53	34	50.5	36.2	42.9	- 7.2	31	16	5	0.44	+ 0.06	43.1	- 6.9	41	- 6
	Southampton	57	35	54.7	36.9	45.3	- 6.1	45	14	6	0.29	- 0.13	44.9	- 1.6	43	- 1
	Portland Bill	54	36	53.0	39.3	45.7	- 4.7	37*	8	3	0.27	—	*	*	*	*
	Shaftesbury	53	33	50.8	35.1	42.5	- 6.6	32	19	4	0.05	- 0.45	*	*	*	*
	Laudale (Loch Sunart)	55	32	51.9	34.5	42.7	- 5.8	36	21	4	0.28	- 0.56	*	*	*	*
7. ENGLAND, N.W	Glasgow	55	33	51.7	36.7	43.8	- 4.1	35	15	5	0.69	- 0.44	54.6	+ 19.3	50	+ 17
	Cally	57	26	54.8	31.9	42.7	- 5.6	47	28	4	0.64	+ 0.01	*	*	*	*
	Douglas (Isle of Man)	54	34	52.2	37.4	44.4	- 3.8	36	13	4	0.14	- 0.38	61.5	+ 12.6	57	+ 12
	Newton Reigny	51	30	49.9	33.9	41.4	- 5.1	22	30	6	0.48	—	38.7	—	36	—
	Stonyhurst	51	33	48.7	35.8	41.9	- 6.3	19	24	6	0.42	- 0.16	49.3	+ 8.0	46	+ 8
	Blackpool	52	30	50.0	35.2	42.2	- 6.8	30	19	6	0.46	+ 0.02	63.3	+ 21.3	59	+ 20
8. ENGLAND, S.W.	Manchester (Prestwich)	52	32	49.3	34.9	41.7	- 6.7	20	27	4	0.46	- 0.04	42.3	—	39	—
	Liverpool Obsy. (Bidston)	51	35	49.6	38.6	43.8	- 5.9	27	10	6	0.30	- 0.11	52.4	—	49	—
	Chester	55	33	51.0	36.6	43.4	- 7.0	32	15	3	0.15	—	*	*	*	*
	Llandudno	53	28	50.4	41.3	45.6	- 4.2	28	2	4	0.13	- 0.29	70.2	+ 27.5	66	+ 26
	Holyhead	50	40	47.9	40.9	44.2	- 5.3	20	3	2	0.07	- 0.35	*	*	*	*
	Llandoverly	53	31	54.0	34.9	43.9	- 5.6	43	20	6	0.42	- 0.19	*	*	*	*
9. IRELAND, N.	Pembroke	52	37	50.3	40.7	45.2	- 3.8	28	4	3	0.08	- 0.36	66.1	+ 18.1	63	+ 17
	Clifton	55	36	53.2	38.5	45.4	- 4.5	39	10	2	0.05	- 0.47	*	*	*	*
	Bath	55	31	52.9	35.7	43.8	- 6.4	39	18	2	0.02	—	54.8	—	52	—
	Arlington (N. Devon)	52	34	50.1	36.7	43.0	- 5.5	29	15	3	0.27	- 0.37	*	*	*	*
	Cullompton	56	34	54.6	37.1	45.3	- 5.2	44	14	3	0.09	- 0.41	65.5	+ 22.8	62	+ 21
	Falmouth	53	39	50.8	40.9	45.6	- 4.8	30	3	4	0.26	- 0.33	75.0	+ 25.0	72	+ 24
10. IRELAND, S.	Plymouth	53	36	52.1	39.0	45.2	- 6.3	35	8	3	0.21	- 0.26	67.0	+ 20.4	64	+ 19
	Malin Head	52	39	48.7	41.1	44.7	- 3.7	23	3	5	0.32	—	*	*	*	*
	Edenfel (Omagh)	58	32	52.3	36.3	43.8	- 4.0	37	16	6	0.34	- 0.21	*	*	*	*
	Blacksod Point	52	41	51.1	42.9	46.8	- 2.7	34	0	7	0.65	—	*	*	*	*
	Markree Castle	55	32	53.1	37.6	44.9	- 3.4	39	12	5	0.40	- 0.16	45.3	+ 5.3	42	+ 4
	Armagh	59	32	55.1	35.1	44.5	- 3.8	46	19	6	0.21	- 0.27	53.6	+ 14.6	50	+ 13
CHANNEL ISLANDS	Donaghadee	51	39	49.6	40.7	44.9	- 3.5	26	4	2	0.13	- 0.34	*	*	*	*
	Dublin	55	36	53.4	38.7	45.6	- 4.8	39	9	4	0.12	- 0.33	56.8	+ 11.3	54	+ 11
	Parsonstown	57	33	54.1	36.3	44.7	- 4.6	43	16	4	0.45	- 0.05	47.0	+ 6.8	44	+ 6
	Kilkenny	56	33	54.3	37.1	45.2	- 4.6	43	14	3	0.16	- 0.33	*	*	*	*
	Roche's Point	58	39	55.1	41.0	47.6	- 3.4	43	3	4	0.39	- 0.28	*	*	*	*
	Valencia	54	36	52.7	42.4	47.2	- 3.8	36	0	6	0.21	- 0.51	56.2	+ 10.8	54	+ 11
	Killarney	57	32	55.5	38.2	46.3	- 3.9	46	11	3	0.18	- 0.53	*	*	*	*
	Foynes	56	32	54.4	39.0	46.2	- 3.6	42	8	2	0.13	- 0.41	*	*	*	*
	Scilly (St. Mary's)	55	42	53.1	43.9	48.2	- 3.0	43	0	1	0.02	- 0.39	72.1	—	69	—
	Jersey	55	37	52.4	41.4	46.6	- 5.2	35	2	3	0.38	- 0.06	75.3	+ 22.2	73	+ 21

Stations marked *†* are in connection with the Royal Meteorological Society, and those marked *§* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 4th May.

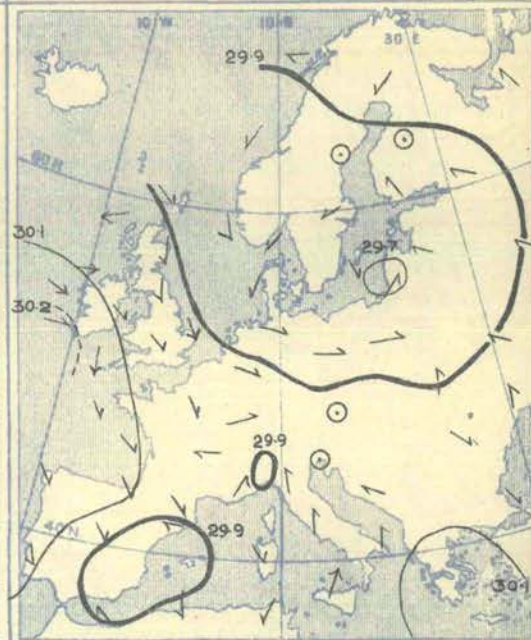
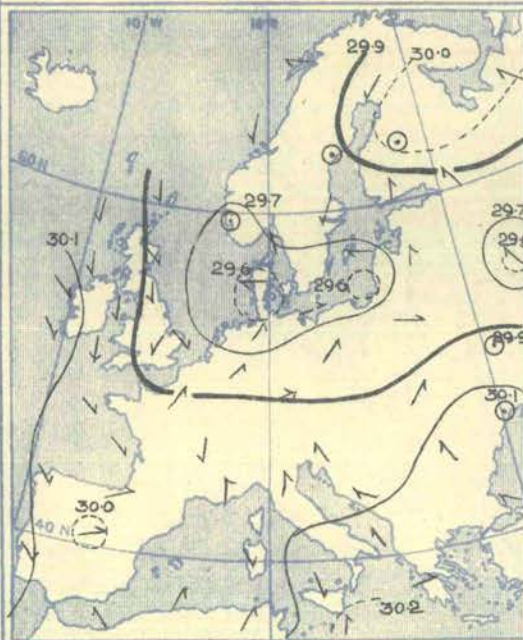
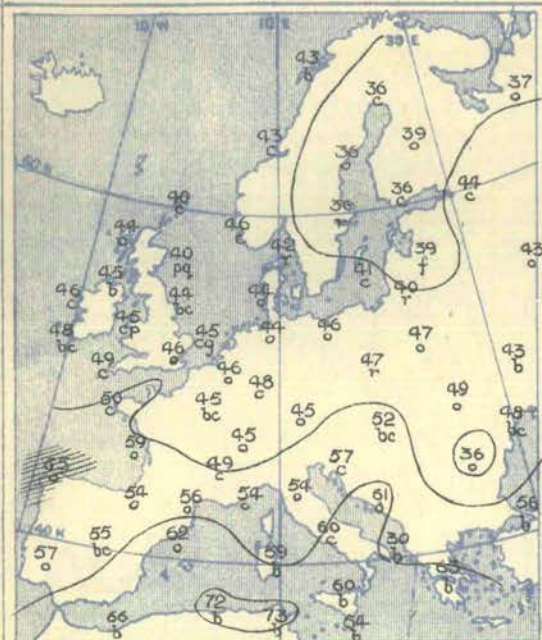
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in the extreme south-east of Europe and at most Mediterranean stations, cloudy or dull elsewhere, with showers in different parts of the United Kingdom and steady rain in the south of Scandinavia and at Memel. Rain falling later in nearly all regions, but weather continuing dry in the extreme north of Europe, and also in Spain, Algeria, Greece, and most parts of Italy.

Temperature fallen over our Islands and France, risen somewhat in most other countries. Morning readings, highest, 73° at La Calle, 66° at Nemours, 63° in Greece, and above 55° at several southern stations. Lowest, 36° in various stations in the Gulf of Finland, and at Hermanstadt, 37° at Archangel, 40° in the north and north-east of Scotland, and below 50° over the northern half of our area generally. Maxima recorded during day 55° at Leith and in London, 61° at Nice, 70° at Marseilles, 72° at Madrid and Malta, 77° at Palermo and Nemours, and 80° at La Calle. Temperature remaining below 50° at many of our own stations.

Wind moderate or fresh from the Northward and North-Westward over the United Kingdom and the greater part of France, moderate from West or South-West over Germany and central Europe, and from East or North-East over Scandinavia. Light, and mainly from some Southerly point, over southern Europe and the Mediterranean. No great change later as a whole, but a cyclonic circulation setting in over Spain and the neighbouring parts of the Mediterranean.

Barometer in morning, highest, 30.1 ins. and upwards, over and to the westward of Ireland, and also over the south-eastern portion of Europe. Lowest, 29.6 ins. and less, (1) in a shallow disturbance with its centre over Holstein, (2) in another system near Moscow; below 30.0 ins. in a third disturbance near Madrid. Russian depression disappearing during day, and all the others moving eastwards. Barometer rising slowly along the Atlantic seaboard.

Monday, 5th May.

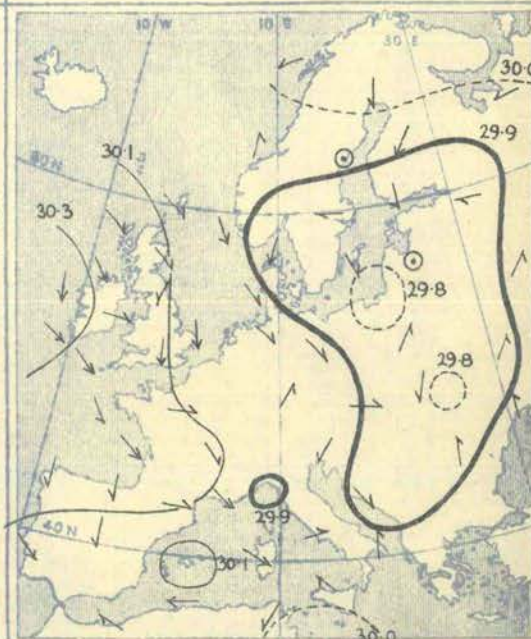
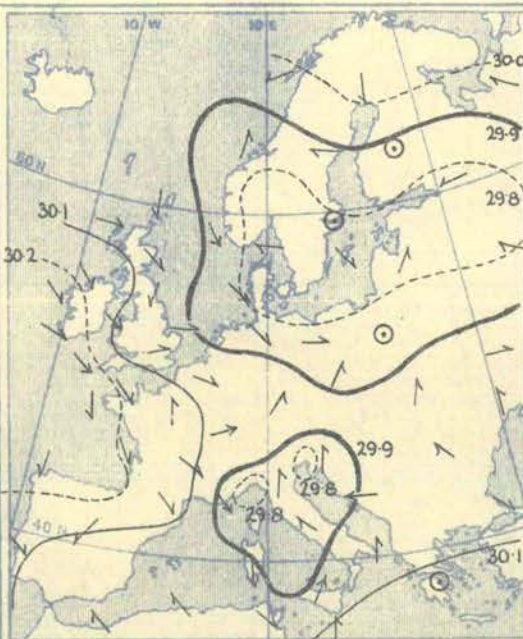
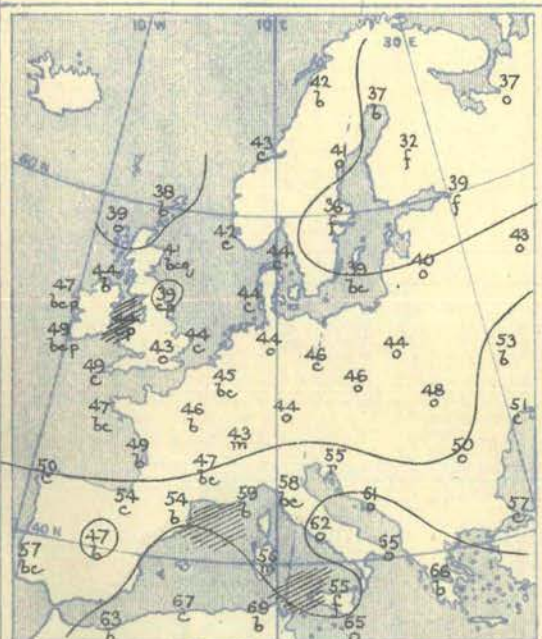
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather cloudy or dull in most regions, but fine and bright in a few isolated localities; showery in different parts of the United Kingdom, and rainy at Münster, Vienna and Trieste. Rain falling later over the whole of our Islands and in most Austrian and German districts, as well as in the Netherlands and the east of France.

Temperature risen in Italy, fallen elsewhere. Morning readings, highest, 60° at La Calle, 67° at Algiers, and 66° at Oran and Patras; above 60° at most stations on the shores of the Mediterranean, but only 50° at Cape Sicé, and 55° at Palermo. Lowest, 32° at Kuopio, 36° at Stockholm, 37° at Memel, and 39° at some of our own northern stations. Rising subsequently to 64° in the south of France, to 70° or more at several Italian stations, to 77° at Tunis and to 84° at La Calle. Maxima not much above 50° in the United Kingdom, and below that value on several parts of our north and east coasts.

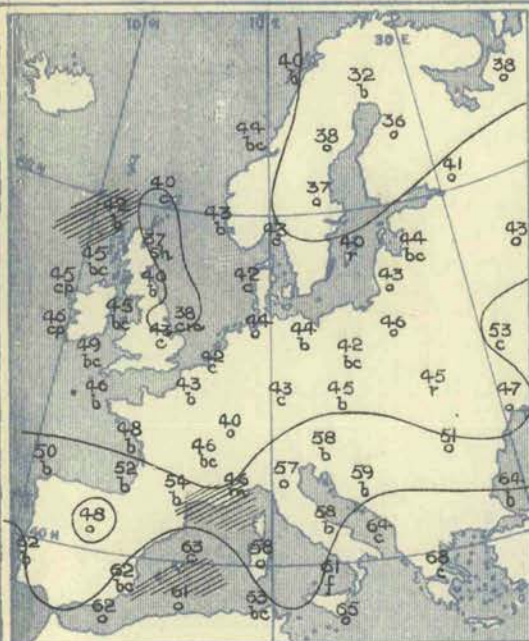
Wind irregularly cyclonic over our Islands and the northern half of Europe generally, the North-Westerly current being strong or fresh on some parts of our western and southern coasts. A separate cyclonic circulation of light to fresh winds over Italy and its neighbourhood. Not much change during day, but cyclonic movements becoming less well marked on the Continent.

Barometer fallen over south-eastern Europe and Italy, and also in the extreme north-east, risen elsewhere. Morning readings, highest, 30.2 ins. and upwards over the west of Ireland, Brittany, and the Bay of Biscay, and above 30.1 ins. over Greece. Lowest, (1) below 29.8 ins. in an irregularly shaped area embracing Denmark, the south of Scandinavia, the Baltic, and Gulf of Finland and stretching eastwards to Moscow; (2) in two small minima lying respectively over the Gulf of Genoa and the north of the Adriatic. Northern cyclonic area spreading southwards later, and Adriatic minimum moving eastwards. Barometer rising slowly over our Islands.

Tuesday, 6th May.

Temperature and Weather.

8 a.m.

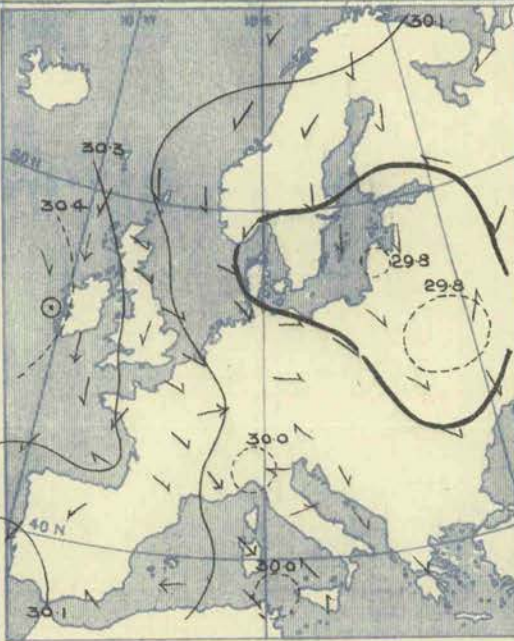


Weather in morning fine and bright in several southern and Mediterranean districts; cloudy or dull elsewhere, changeable and showery over our Islands, and rainy at Wisby and Swinemünde. Rain falling later in most parts of central Europe and at several French and Algerian stations, and showers of cold rain, sleet or snow over the United Kingdom.

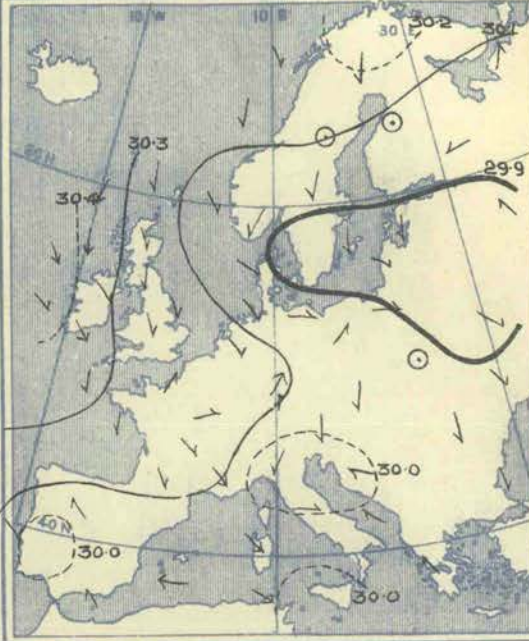
Temperature fallen over Italy, France, and the British Isles. Readings at 8 a.m. ranging from 68° at Athens, and a little above or a little below 60° at Mediterranean stations, to 38° at Yarmouth and Archangel, 37° at Aberdeen and Uleaborg, and to 32° at Haparanda. Remaining below 50° all day at many British and German stations, but rising to 64° at Marseilles, Nice, and Trieste, 72° at Tunis, Malta, and Madrid, 77° at La Calle, and 78° at Brindisi.

Barometer and Wind.

8 a.m.



6 p.m.



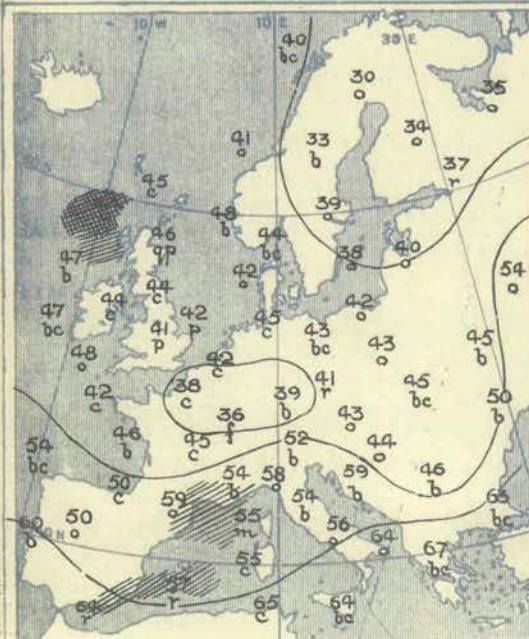
Wind moderate or fresh from North and North-West over our Islands and Northerly or North-Easterly over Scandinavia. Light and cyclonic over central and south-eastern Europe, and also over the Gulf of Genoa and its vicinity; Easterly and North-Easterly, fresh, in Portugal. Very little change in direction during day, but North-North-Easterly wind increasing to a moderate gale in the Hebrides, and strong winds or slight gales from various points springing up at some Mediterranean stations.

Barometer risen in most countries, but fallen over south-eastern Europe. Readings at 8 a.m., highest, 30.4 ins. and upwards over the west of Ireland and the neighbouring parts of the Atlantic. Lowest, 29.9 ins. to 29.7 ins. and less, in a large and irregularly shaped area over Denmark, the Baltic, eastern Germany, and a large part of Russia; below 30.0 ins. in systems lying over the Gulf of Genoa and Tunis. Several small local irregularities of pressure over our Islands and the North Sea. No material change during day.

Wednesday, 7th May.

Temperature and Weather.

8 a.m.

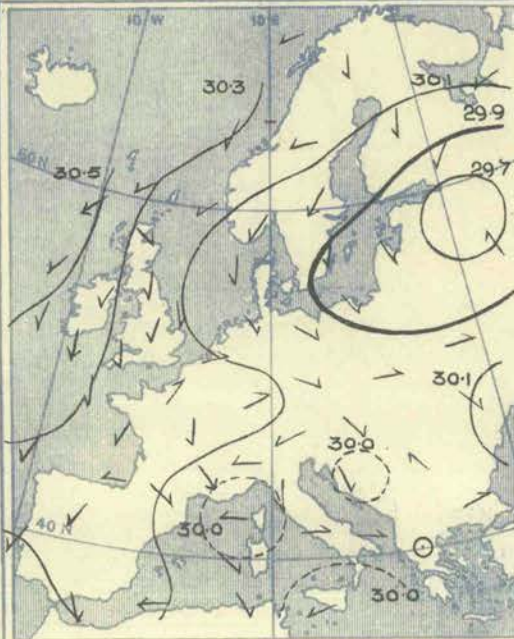


Weather in morning fine and bright over south-eastern Europe, over Italy, and the Riviera, cloudy or dull elsewhere. Showery and changeable over our Islands, rainy at Copenhagen and St. Petersburg, and snow at Karlstad. Rain falling during day over the east and south of the United Kingdom and in many parts of the Continent. Amounts not heavy as a rule, but half an inch measured at Biarritz and 1.8 ins. at Palma.

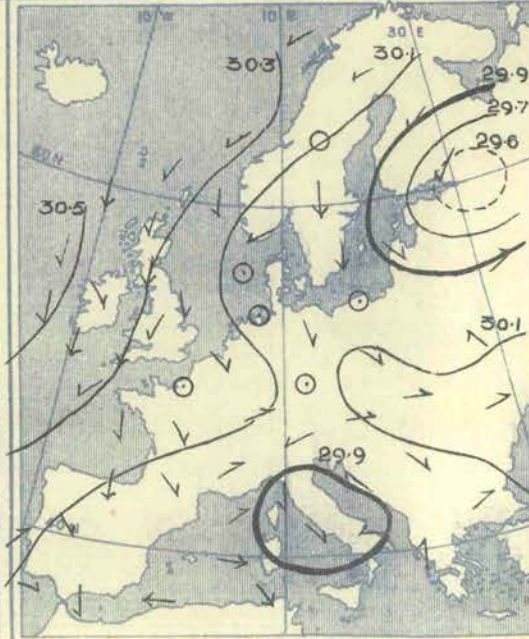
Temperature risen in Scotland, fallen in most other regions. Morning readings, highest, 68° at Athens, 65° at La Calle, 64° at Brindisi and Malta, and 60° at Lisbon. Below 50° over our Islands, at nearly all the French stations, central Europe and Russia generally, but 54° at Moscow. Lowest, 30° at Haparanda, 35° at Archangel and Karlstad, 37° over the Gulf of Finland, and 38° at Loughborough. Maxima during day as high as 72° at some Algerian, Spanish and Italian stations, and about 64° in the south of France, but below 60° over the northern half of Europe generally and below 50° in the north and east of our Islands.

Barometer and Wind.

8 a.m.



6 p.m.



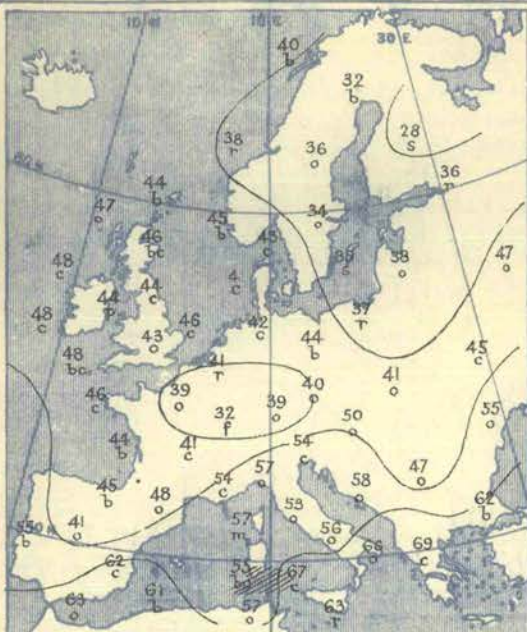
Wind at 8 a.m. strong from the North-East in the Hebrides and moderate or fresh from the Northward over our Islands and north-western Europe generally. Two cyclonic circulations elsewhere; one over Russia and Finland, the other over the Gulf of Genoa and the neighbouring Islands. Not much change during day, but northern cyclonic circulation gaining in energy, and wind also increasing in force at some Mediterranean stations.

Barometer fallen over central Russia and in many parts of southern Europe, risen elsewhere. Morning readings, highest, 30.5 ins. and more on our extreme western coasts and the adjacent portions of the Atlantic. Lowest, 29.7 ins. and less in a depression with its centre between St. Petersburg and Moscow; below 30.0 ins. in three other minima lying respectively over Corsica, Dalmatia, and Malta. Russian depression increasing considerably in depth by evening and apparently moving north-westwards. A small disturbance appearing over central Spain.

Thursday, 8th May.

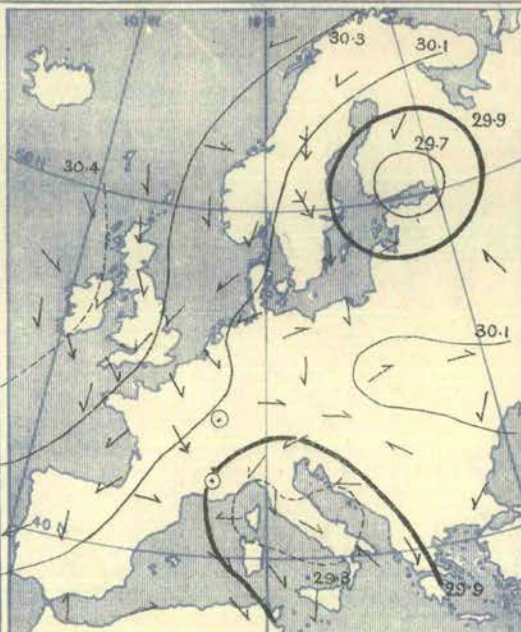
Temperature and Weather.

8 a.m.

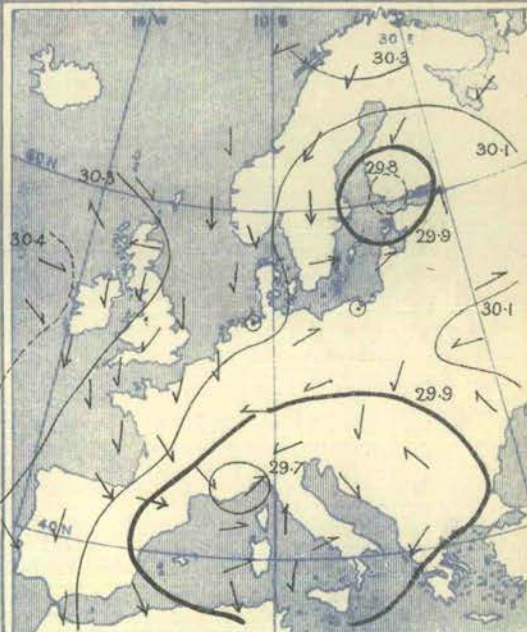


Barometer and Wind.

8 a.m.



6 p.m.



Weather cloudy and dull over Europe as a whole, with showers at a few of our own western stations, steady rain over the Gulf of Finland and at Christiansund and Brussels, and snow at Kuopio and Wisby; thunderstorm reported at Bilbao. Fine in the northeast of Scotland and many parts of Scandinavia, as well as in the south-west of France. Showers falling during day in most parts of western Europe, and heavy rain in the extreme south of France and the neighbouring parts of Spain and Italy; thunder heard at Lorient.

Temperature changed slightly and irregularly in the western countries, fallen in most other parts of Europe. Morning readings, highest 69° at Patras, 67° at Athens and 66° at Brindisi, above 60° over the central and southern parts of the Mediterranean generally. Lowest, 28° at Uleaborg, and 32° at Haparanda and Hangö; below 40° over nearly the whole of Scandinavia and northern Russia, and very little above it in many parts of England. Daily maxima below 55° in nearly all parts of the United Kingdom, and below 50° on our eastern coasts; thermometer exceeding 65° over southern Europe generally, and reaching 75° at Madrid.

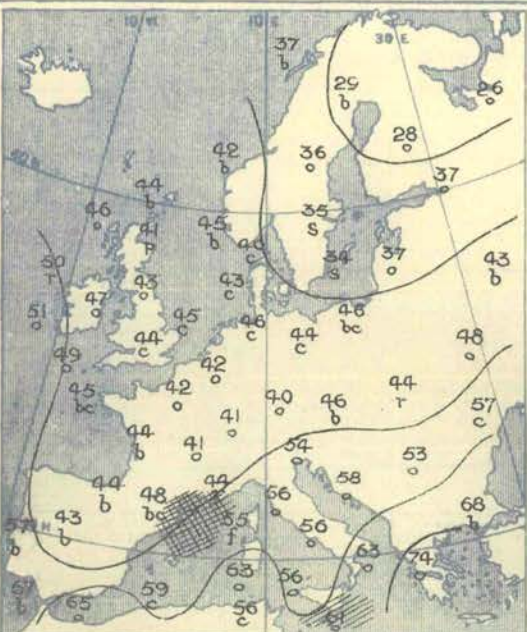
Wind Northerly (North-Westerly to North-Easterly) over western and northern Europe generally, and strong to a gale in force in Sweden. Light from the Westward in Germany and Austria; variable over the southern parts of Russia and Italy. Subsequently backing to the Westward in the west of Ireland, and shifting to the Eastward or South-Eastward in Scotland; no decided change occurring elsewhere.

Barometer highest in a large anticyclone lying over Ireland, the west of Scotland, and all neighbouring parts of the Atlantic. Lowest, 29.7 ins. and less in a well marked cyclonic system with its centre over the Gulf of Finland; 29.8 ins. and less in a shallow area over Corsica, Sardinia and southern Italy. Former disturbance remaining almost stationary during day; latter system spreading northwards and eastwards, and becoming somewhat deeper.

Friday, 9th May.

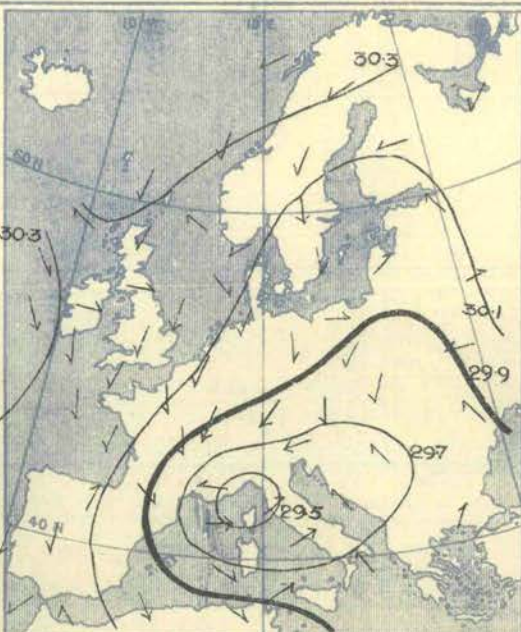
Temperature and Weather.

8 a.m.

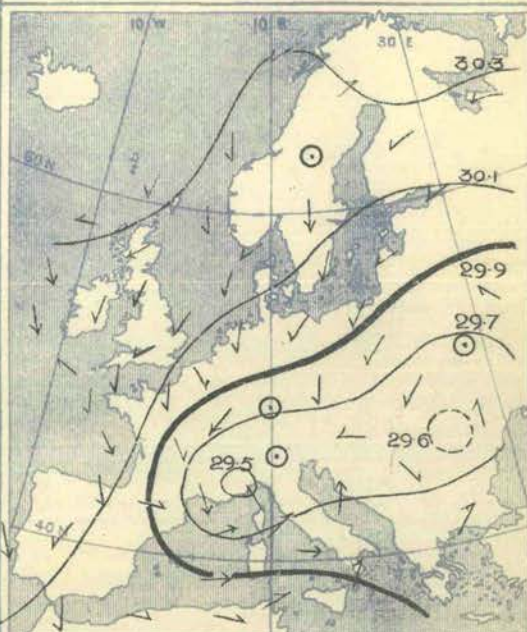


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in the extreme north; cloudy and unsettled in almost all other regions. Snow falling in the Gulf of Finland and the south of Sweden, rain in several parts of our Islands, the Riviera and north of Italy, and also at Cracow and Lemberg. A thunderstorm in progress at Biarritz and Bilbao. Rain falling later in nearly all parts of central and southern Europe, about 1.5 ins. at Pesaro.

Temperature in morning, highest, 74° at Athens, 68° at Constantinople, 65° at Nemours and 63° at Brindisi. Lowest, 36° at Archangel, 28° or 29° in Lapland. Lowest in our Islands, 38° at Newton Reigny, below 45° at most French stations, and only 41° at Cape Sicie; 43° at Madrid. Rising subsequently to 53° at Roche's Point and Nice, 57° at Berlin and Frankfurt, 64° at Barcelona, 72° at Palermo, 76° at Brindisi, 77° at Nemours and 86° at Constantinople. Not rising to 50° at some stations in the south and east of France.

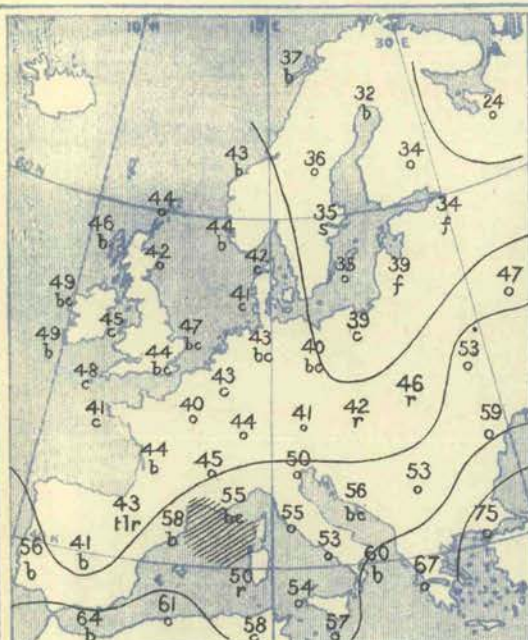
Wind North-Easterly or Northerly over north-western Europe and of no great strength. A brisk circulation of cyclonic winds over Italy, the south of France and the Mediterranean. No great or general change during day, but wind increasing to a moderate gale from West at Cagliari and from South at Lésina.

Barometer risen over northern, fallen over southern Europe. Readings at 8 a.m., highest, 30.30 ins. and upwards, to the westward and northward of the United Kingdom. Lowest, 29.5 ins. in a rather deep depression over the Gulf of Genoa; below 29.9 ins. in another system lying over the northern part of the Baltic. Southern disturbance moving slowly north-westward later, and that in the north disappearing. Another low pressure system forming over the mouth of the Danube.

Saturday, 10th May.

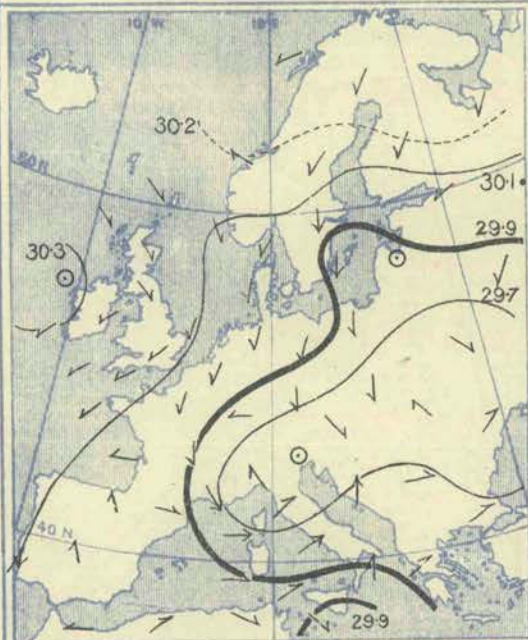
Temperature and Weather.

8 a.m.

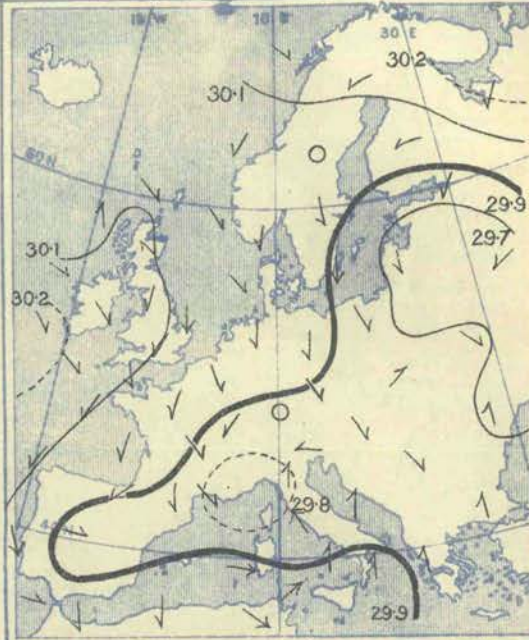


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but fine and bright in Norway, as well as at some British, Spanish, and Algerian stations. Rain falling over northern Italy and the Gulf of Finland, and snow at Stockholm, and a thunderstorm in progress at Biarritz. Showers, or steady rain, falling later in the west and north of our Islands and in many parts of central and southern Europe, more than half an inch at Florence and more than an inch at Bilbao.

Temperature changed irregularly. Readings at 8 a.m., highest, 75° at Constantinople, 67° at Patras, 64° at Nemours, 60° at Brindisi, and 56° at Lesina and on the coast of Portugal. Lowest, 24° at Archangel, 32° at Haparanda, 26° at Münster, 40° at Newton Reigny and Paris, 41° at Madrid, 44° at Cape Sicé, and 47° at Florence. Rising during day to a little above 50° in many parts of our Islands and Germany, 64° at Perpignan, 72° at San Fernando, 73° at Brindisi, 77° at Athens, and 86° at Constantinople. Not exceeding 48° at Clermont, and 53° at Lyons.

Wind North-Westerly to North-Easterly over the United Kingdom and North-Easterly in most other parts of northern and western Europe; strong over the northern parts of the Baltic, moderate or light elsewhere. Light to moderate or fresh and irregularly cyclonic over the southern and eastern countries. No decided change later as a whole, but wind shifting to East or South-East in Scotland and increasing to a gale from north at Wisby and to a moderate gale from West at Cagliari.

Barometer fallen rather briskly over central and southern Russia, and risen over Italy and Greece. Morning readings, highest, 30.3 ins. over the West of Ireland, and above 30.2 ins. in the extreme north of Europe. Lowest, 29.7 ins. to 29.6 ins. and less, in an elongated and irregularly shaped area stretching from the south of Russia, and the Black Sea to the Riviera and Corsica. Cyclonic band breaking into two parts by evening and eastern portion extending northwards. Another small disturbance approaching the west of Scotland.

GENERAL NOTES.

During the earlier days of the week pressure was relatively high off our own south-western and western coasts, over northern Russia and south-eastern Europe, while depressions were shown in various parts of the intervening regions and very small secondary systems over the United Kingdom. As the week progressed and the disturbances travelled slowly eastwards, pressure gave way over south-eastern Europe, while it increased on our west and south-west coasts and over the adjacent parts of the Atlantic. The latter consequently became the dominant high pressure system in our area. Cyclonic disturbances continued to appear over different parts of central and eastern Europe and also over the Mediterranean and Italy. The winds experienced (which were generally only moderate in force) were mainly from the North-

ward (north-west to north-east) over our Islands and north-western Europe generally, while the other portions of our area were more immediately affected by the various cyclonic systems. Slight falls of rain, hail, or sleet were very frequent over the British Islands and their neighbourhood and on several occasions rain fell over the southern countries. In far northern districts snow fell from time to time. More than one of the small disturbances over our Islands caused slight thunderstorms, and towards the end of the week thunderstorms prevailed at Biarritz and Bilbao also. Temperature was very low for the season, especially over England, France and Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 110.

STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	62.7	+ 23.7	56	+ 21	THURCASTON	26.7	- 11.9	25	- 11	BOURNEMOUTH	73.0	—	70	—
STRATHPEFFER SPA	38.4	+ 0.9	35	+ 1	MARGATE	47.9	+ 5.8	46	+ 6	SOUTHPORT	60.6	—	57	—
EDINBURGH	34.0	- 1.3	31	- 2	BROADSTAIRS	57.6	—	55	—	RHYL	—	—	—	—
MORPETH	51.8	—	48	—	EASTBOURNE	36.8	- 11.5	35	- 11	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	38.1	—	35	—	BRIGHTON	48.3	+ 1.7	46	+ 1	ABERDOVEY	60.7†	—	57†	—
YORK	32.3	- 6.9	30	- 6	WORTHING	50.8	—	48	—	TENBY	66.7	+ 18.5	64	+ 18
LOWESTOFT	55.3	—	53	—	BOGNOE	43.5†	—	41†	—	NEWQUAY	62.1	+ 15.3	60	+ 15
HOLLESLEY BAY	49.2	—	47	—	WATERGATE	43.4	—	41	—	TORQUAY	76.2	+ 28.2	73	+ 27
DUNMOW	37.1	—	35	—	WESTBOURNE	44.8†	- 3.8	43†	- 3	GUERNSEY	70.6†	+ 15.8	69†	+ 15
SHEFFIELD	37.4	—	35	—	VENTNOR HOSPITAL	46.4	- 2.9	44	- 3					
WORKSOP	42.6	+ 5.8	40	+ 6										

† The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)							Rainfall.			Bright Sunshine.				
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees)		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
Week ending April 12th, 1902.	York	—	—	—	—	—	—	—	—	—	—	27.9	- 1.8	30	- 1	
" " 19th, "	York	—	—	—	—	—	—	—	—	—	—	41.5	+ 9.8	42	+ 10	
" " 26th, "	Rhyl	—	—	—	—	—	—	—	—	—	—	54.3	—	56	—	
" " " "	York	—	—	—	—	—	—	—	—	—	—	48.6	+ 14.3	48	+ 15	
" " " "	Colly Weston	64	40	60.4	43.4	51.9	+ 4.1	67	0	4	0.35	—	—	—	—	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 20.]
Fourth Series.

WEEK ENDING SATURDAY, MAY 17TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 116.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	27	48.7	36.1	42.0	5 below	Day-deg. 19	Day-deg. - 24	Day-deg. 17	Day-deg. +10	Day-deg. 276	Day-deg. - 43	Day-deg. 652	Day-deg. + 96
	1. SCOTLAND, EAST	56	27	48.7	35.8	41.9	6 below	19	- 32	24	+19	326	- 80	724	+115
	2. ENGLAND, N.E.	58	31	50.0	36.8	43.0	6 below	29	- 22	15	+12	414	+ 3	522	+ 18
	3. ENGLAND, EAST	60	28	51.7	36.9	43.9	6 below	35	- 30	14	+11	488	- 31	516	- 37
	4. MIDLAND COUNTIES	59	25	53.5	37.6	45.1	5 below	40	- 26	12	+ 8	527	- 20	521	- 39
	5. ENGLAND, SOUTH	58	26	52.8	39.4	45.7	6 below	37	- 35	7	+ 6	515	- 78	358	- 55
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	59	27	52.4	37.3	44.4	5 below	37	- 20	13	+10	428	- 16	480	+ 51
	7. ENGLAND, N.W.	57	31	51.5	39.7	45.2	5 below	32	- 29	6	+ 4	425	- 30	421	+ 9
	8. ENGLAND, S.W.	59	27	54.0	40.4	46.8	4 below	40	- 26	4	+ 3	559	- 33	324	+ 7
	9. IRELAND, NORTH	55	33	51.7	41.3	46.2	3 below	32	- 26	2	0	440	- 77	338	- 26
	10. IRELAND, SOUTH	61	35	55.3	44.1	49.4	2 below	52	- 14	0	- 1	614	- 40	240	- 27
	—CHANNEL ISLANDS.	58	38	54.6	44.4	49.2	3 below	50	- 24	0	0	744	+ 15	99	- 24

DISTRICTS. (See p. 116.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 5	10ths of in. 2 less	100	+12	Ins. 18.9	+ 0.5	33	- 6	29	- 5	446	+ 33	29	+ 2
	1. SCOTLAND, EAST	6	6	2 more	80	+ 7	8.3	- 2.3	33	- 8	29	- 7	461	+ 4	30	+ 1
	2. ENGLAND, N.E.	5	7	3 more	67	- 3	6.6	- 1.6	35	-11	31	-10	483	+ 16	29	+ 1
	3. ENGLAND, EAST	6	9	5 more	69	- 2	6.5	- 1.5	34	-15	31	-14	539	- 18	32	- 1
	4. MIDLAND COUNTIES	6	7	2 more	65	- 2	7.9	- 1.3	26	-16	24	-14	450	+ 3	30	0
	5. ENGLAND, SOUTH	7	8	4 more	62	- 4	7.7	- 1.9	25	-24	24	-23	530	- 43	31	- 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	10	3 more	89	+11	18.2	- 0.1	33	-11	30	-10	463	- 6	29	- 1
	7. ENGLAND, N.W.	5	8	3 more	81	+10	10.2	- 0.9	43	+ 1	39	+ 1	545	+ 77	35	+ 5
	8. ENGLAND, S.W.	6	10	5 more	72	- 3	10.8	- 3.5	27	-22	25	-20	512	- 51	33	- 3
	9. IRELAND, NORTH	6	11	6 more	97	+14	13.3	+ 1.6	21	-21	19	-19	479	+ 16	30	+ 1
	10. IRELAND, SOUTH	6	9	3 more	79	0	13.0	- 1.9	26	-20	24	-18	508	- 16	32	- 1
	— CHANNEL ISLANDS.	6	11	7 more	77	- 2	10.6	- 1.0	32	-28	30	-27	565	- 92	35	- 5

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was mostly cloudy or dull, with showers almost daily, sometimes hail or sleet. Thunderstorms were experienced on Saturday over the south-eastern half of England.

Temperature was again much below the mean, although it rose considerably for a time soon after the middle of the week. The deficit ranged from 2° or 3° in Ireland and the Channel Islands, and 4° in England S.W. to 5° and 6° in the other parts of the Kingdom. The highest of the maxima occurred, as a rule, either on the 16th or 17th, and ranged from 61° in Ireland S. and 60° in England E. to 55° in Ireland N. and 54° in Scotland N. The daily maxima on our eastern and north-western coasts were again frequently below 50°. The lowest of the minima were recorded on Wednesday over England, but either earlier or later in the week over Ireland and Scotland. They were as low as 25° in the Midland Counties, 26° in England S., and between 27° and 28° in most other districts in Great Britain; in England N.E. and N.W., however, they were 31°, in Ireland between 33° and 35°, and in the Channel Islands 38°.

Rainfall was considerably more than the mean in all districts excepting Scotland N. The excess ranging from seven-tenths of an inch in the Channel Islands to only two over our Midland Counties and in the east of Scotland.

Bright Sunshine was very deficient in most places—especially in the Channel Islands and England S.; it was slightly in excess in England N.W. The percentage of the possible duration ranged from 39 in England N.W. and above 30 in England N.E. and E. to 24 in the Midland Counties and England S. and to 19 in Ireland N.

Barometer and Wind. During the earlier half of the week the barometer continued highest to the westward of the United Kingdom, and lowest in the east, and the cyclonic disturbances in our neighbourhood moved in a south-easterly direction. Later on, however, the highest pressure became established over the Bay of Biscay, Spain, and the south-west of France, and disturbances moved more from the eastward over the northern parts of our Islands. The wind, which had been moderate or fresh from between North and North-West, consequently backed to the Westward or South-Westward, very generally, and frequently blew freshly or strongly on our more western and north-western coasts. Quite at the end of the period a disturbance was moving south-eastwards from Scotland to the North Sea; the wind over our Islands was veering quickly to the North-Westward and Northward, and increasing decidedly in force in the west and south-west.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
										Number of Rainy Days.	Inches.	Inches.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
0. SCOTLAND, N	Sumburgh Head	47	32	45.9	35.9	40.6	- 4.1	11	22	6	0.35	- 0.06	*	*	*	*
	Stornoway	52	31	49.6	37.0	42.9	- 3.6	27	14	3	0.42	- 0.14	41.5	- 1.0	36	- 1
	Wick	51	27	49.3	33.3	40.8	- 6.0	20	32	5	0.55	+ 0.15	*	*	*	*
	Laing	52	31	47.9	34.8	41.0	- 6.2	17	27	5	0.36	- 0.68	*	*	*	*
	Glencarron	53	31	48.9	37.3	42.8	- 5.8	25	13	5	0.43	- 0.04	18.4	- 11.8	16	- 11
	Fort Augustus	54	33	50.4	38.3	44.0	- 5.1	30	10	4	0.68	- 0.11	21.9	- 17.6	19	- 13
1. SCOTLAND, E	Fort William	54	33	50.4	38.3	44.0	- 5.1	30	10	4	0.68	- 0.11	21.9	- 17.6	19	- 13
	Nairn	54	32	49.0	36.7	42.8	- 5.6	28	15	7	0.38	+ 0.01	*	*	*	*
	Aberdeen	49	33	46.3	36.3	41.0	- 6.6	12	21	7	0.99	+ 0.53	39.1	- 3.7	35	- 3
	Braemar	40	32	44.5	33.7	38.8	- 6.2	7	29	6	0.71	+ 0.24	*	*	*	*
	Ochertyre	54	30	52.3	35.3	43.3	- 5.9	37	19	4	0.53	0.00	*	*	*	*
	Leith	56	35	52.4	38.9	45.3	- 4.0	36	9	6	0.42	+ 0.05	*	*	*	*
2. ENGLAND, N.E.	Marchmont	52	27	47.1	33.6	40.0	- 7.3	14	31	6	0.66	+ 0.13	37.3	- 4.1	33	- 4
	Alnwick Castle	58	34	51.4	36.2	43.3	- 3.9	33	16	5	0.72	+ 0.26	*	*	*	*
	Durham	56	32	48.5	35.2	41.5	- 6.7	18	26	6	0.51	+ 0.07	29.4	- 9.2	26	- 9
	Shields	57	34	48.1	38.3	42.9	- 5.0	22	10	4	0.63	+ 0.26	*	*	*	*
	Scarborough	57	31	50.0	35.1	42.1	- 6.6	30	19	6	0.58	+ 0.15	37.8	—	34	—
	Spurn Head	58	36	50.4	39.0	44.4	- 4.7	29	8	6	0.63	+ 0.27	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	57	31	51.7	36.8	43.8	-	34	15	5	1.12	+ 0.70	*	*	*	*
	Hillington	60	29	52.1	36.5	43.8	- 6.3	36	15	5	1.35	+ 0.95	30.8	- 15.2	28	- 15
	Yarmouth	59	33	49.3	37.7	43.2	- 6.1	26	12	6	1.03	+ 0.63	*	*	*	*
	Gedeston	60	29	51.4	36.3	43.4	- 6.6	34	16	6	1.10	+ 0.71	37.3	- 12.4	35	- 11
	Cambridge	58	28	53.9	35.6	44.2	- 7.1	42	18	5	0.66	+ 0.26	27.2	- 18.3	25	- 18
	Felixstowe	59	31	50.7	38.5	44.2	- 5.0	30	10	6	0.93	—	40.4†	-†	37†	-†
4. MIDLAND COUNTIES	Rothamsted	57	29	52.6	36.9	44.3	- 5.7	38	14	7	0.41	- 0.04	29.5	- 14.3	27	- 14
	Bawtry (Hesley Hall)	59	33	52.9	37.6	44.8	- 5.4	38	12	6	0.82	+ 0.38	*	*	*	*
	Loughborough	59	31	53.1	37.3	44.7	- 6.4	39	13	6	0.83	+ 0.37	*	*	*	*
	Colly Weston (Stamford)	58	33	53.6	37.3	45.0	- 5.8	41	13	7	0.73	—	*	*	*	*
	Cheadle	56	33	50.7	37.0	43.4	- 5.4	31	14	6	0.91	+ 0.40	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	59	33	52.7	38.2	45.0	- 4.9	37	11	7	0.90	+ 0.39	19.0	—	18	—
5. ENGLAND, S.	Churchstoke	59	33	52.7	38.2	45.0	- 4.9	37	11	7	0.90	+ 0.39	19.0	—	18	—
	Hereford	58	29	55.9	37.9	46.4	- 4.7	48	11	3	0.38	- 0.98	*	*	*	*
	Cirencester	58	25	54.3	36.9	45.1	- 4.8	43	14	5	0.47	- 0.01	26.9	- 18.8	25	- 17
	Oxford	59	31	54.7	38.9	46.3	- 5.0	43	9	6	0.34	- 0.06	28.9	- 14.9	27	- 13
	London	58	31	53.7	39.1	46.0	- 6.8	40	8	7	0.84	+ 0.47	22.3†	- 18.3†	21†	- 17†
	Swarraton (Alresford)	55	26	52.9	36.1	44.0	- 5.8	39	17	6	0.83	+ 0.39	*	*	*	*
6. SCOTLAND, W.	Dungeness	56	30	52.1	37.9	44.6	- 6.6	35	11	6	0.37	+ 0.07	27.0	—	25	—
	Hastings (St. Leonards)	55	36	51.3	40.0	45.3	- 6.0	32	6	7	0.77	+ 0.40	25.3	- 27.4	24	- 25
	Southampton	58	32	55.8	40.7	47.8	- 4.8	46	4	7	1.30	+ 0.90	19.3	- 29.4	18	- 27
	Portland Bill	54	39	51.7	43.0	47.1	- 4.1	36	0	7	0.47	—	*	*	*	*
	Shaftesbury	55	34	52.2	39.2	45.3	- 4.8	35	8	6	1.09	+ 0.62	*	*	*	*
	Laudale (Loch Sunart)	55	32	51.2	37.4	43.9	- 5.6	33	13	7	0.59	- 0.24	*	*	*	*
7. ENGLAND, N.W.	Glasgow	54	36	49.8	39.1	44.1	- 4.9	27	8	5	0.70	+ 0.15	26.4	- 10.6	24	- 9
	Cally	59	27	56.3	34.0	44.5	- 4.7	51	22	4	1.65	+ 1.01	*	*	*	*
	Douglas (Isle of Man)	55	32	52.4	38.6	45.1	- 4.2	36	10	4	0.95	+ 0.45	40.1	- 10.7	36	- 10
	Newton Reigny	54	32	49.4	36.0	42.3	- 5.3	27	17	6	0.52	—	38.8	—	35	—
	Stonyhurst	55	34	50.5	38.9	44.4	- 5.0	30	9	3	0.76	+ 0.16	42.5	- 0.8	39	- 1
	Blackpool	55	31	51.6	38.0	44.4	- 5.8	34	11	3	0.42	- 0.04	51.0	+ 6.8	46	+ 6
8. ENGLAND, S.W.	Manchester (Prestwich)	57	34	51.6	38.2	44.5	- 5.0	33	11	6	0.73	+ 0.20	30.1	—	27	—
	Liverpool Obsy. (Bidston)	55	38	51.4	41.0	45.9	- 5.0	32	3	6	1.12	+ 0.70	48.5	—	44	—
	Chester	57	38	53.4	42.0	47.4	- 4.2	38	0	6	0.80	—	*	*	*	*
	Llandudno	57	38	53.1	41.3	46.9	- 4.0	37	2	7	0.89	+ 0.48	40.3	- 4.5	37	- 4
	Holyhead	54	40	50.6	42.1	46.1	- 4.4	29	0	5	1.00	+ 0.59	*	*	*	*
	Llandoverly	56	27	54.7	37.4	45.5	- 5.2	44	13	7	1.79	+ 1.18	*	*	*	*
9. IRELAND, N.	Pembroke	54	39	51.4	43.4	47.2	- 2.8	36	0	5	0.43	0.00	32.3	- 17.7	30	- 16
	Clifton	56	35	54.5	41.1	47.4	- 3.8	42	3	5	0.50	- 0.02	*	*	*	*
	Bath	57	29	55.1	38.6	46.4	- 5.1	45	10	7	0.69	—	25.4	—	24	—
	Arlington (N. Devon)	55	32	51.7	38.4	44.7	- 5.1	34	10	5	1.62	+ 0.99	*	*	*	*
	Cullompton	59	31	56.7	39.8	47.7	- 3.8	49	6	6	0.85	+ 0.33	21.7	- 23.0	20	- 22
	Falmouth	56	38	53.9	42.9	48.1	- 3.4	43	0	7	1.25	+ 0.68	23.8	- 23.4	27	- 22
10. IRELAND, S.	Plymouth	56	36	54.0	41.5	47.4	- 5.2	40	1	6	1.10	+ 0.64	25.4	- 23.2	24	- 22
	Malin Head	51	38	49.1	40.9	44.8	- 4.5	24	3	6	0.53	—	*	*	*	*
	Edenfel (Omagh)	55	33	52.0	39.9	45.6	- 3.2	34	6	6	1.96	+ 1.41	*	*	*	*
	Blacksod Point	55	42	51.9	45.0	48.2	- 2.2	43	0	7	1.02	—	*	*	*	*
	Markree Castle	55	35	54.0	41.6	47.4	- 1.8	39	1	5	1.02	+ 0.46	21.2	- 21.1	19	- 19
	Armagh	54	34	52.3	39.3	45.4	- 4.1	35	8	6	1.59	+ 1.11	19.7	- 21.3	18	- 20
CHANNEL ISLANDS	Donaghadee	53	39	50.7	40.9	45.5	- 4.2	29	3	5	0.53	+ 0.06	*	*	*	*
	Dublin	60	40	55.9	43.1	49.1	- 2.3	50	0	6	0.96	+ 0.51	27.4	- 20.3	25	- 19
	Parsonstown	56	35	54.7	42.0	48.0	- 2.5	42	0	6	0.69	+ 0.18	22.9	- 18.8	21	- 17
	Kilkenny	59	36	55.7	43.9	49.5	- 1.4	53	0	6	0.54	+ 0.06	*	*	*	*
	Roche's Point	59	40	55.6	44.7	49.8	- 2.1	55	0	7	0.52	- 0.13	*	*	*	*
	Valencia	55	43	53.6	46.6	49.9	- 1.8	55	0	5	1.29	+ 0.61	28.1	- 19.2	26	- 18
CHANNEL ISLANDS	Killarney	61	36	58.1	44.0	50.6	- 0.6	60	0	6	1.19	+ 0.49	*	*	*	*
	Foynes	59	39	53.3	44.6	48.7	- 2.0	47	0	6	1.08	+ 0.56	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	44	54.4	46.3	50.1	- 2.0	57	0	6	0.96	+ 0.57	36.9	—	35	—
	Jersey	56	38	54.7	42.4	48.2	- 4.6	43	0	5	1.17	+ 0.75	24.3	- 31.2	23	- 30

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 11th May.

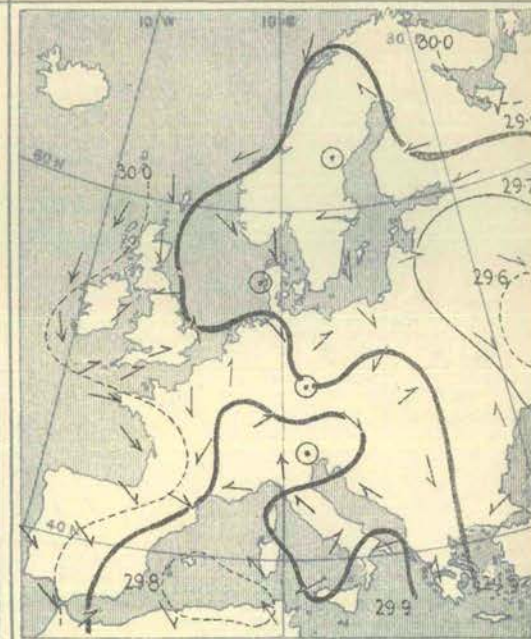
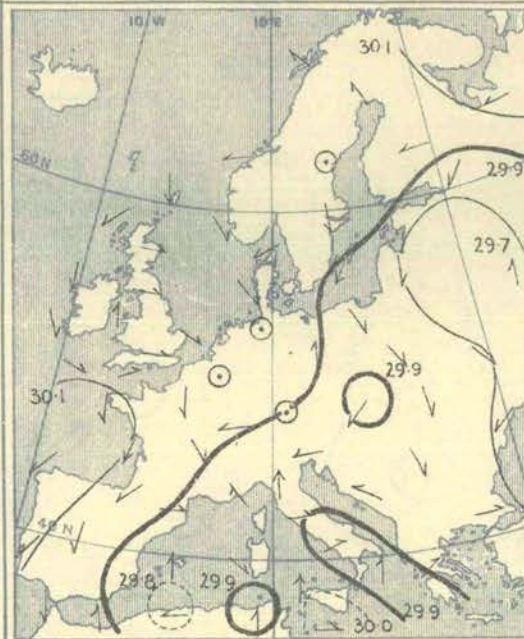
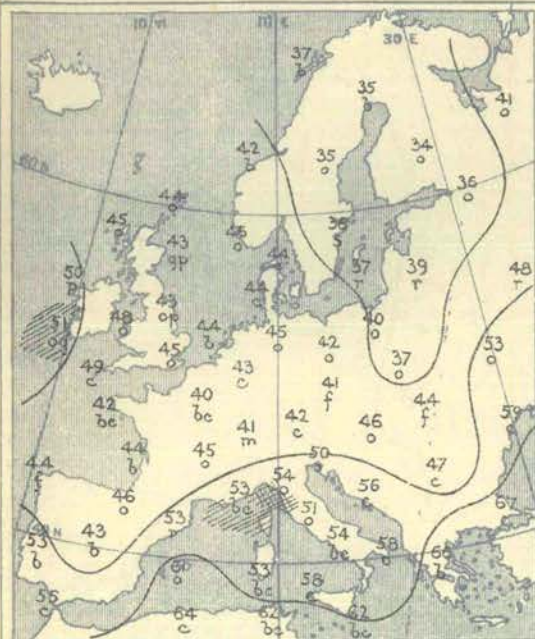
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in the north of Scandinavia and at several French and Spanish stations; cloudy or dull elsewhere, with rain in a few British and Irish districts and also at Barcelona, Perpignan, and Florence. Snow falling at Stockholm and rain at Wisby, and over central Russia. Showers experienced later in nearly all parts of our Islands, and considerable falls of rain over Italy and the north-east of Spain, as much as 1.5 ins. at Rome.

Temperature at 8 a.m., highest, 67° at Constantinople, 66° in Greece, 64° at Algiers, 61° at Palma. Lowest, 34° at Kuopio, between 35° and 37° over the Gulf of Bothnia, 40° at Paris, 43° at Madrid, 44° at Rochefort, Corunna, and Vienna, 48° at Perpignan and 51° at Rome. Lowest in our Islands 43° on our north-east coasts. Rising during day to 56° at Leith and Parsonstown, 61° at Nice, about 70° at San Fernando, and Brindisi, and 77° at Nemours, La Calle, and Athens. Not rising to a higher value than 44° at Shields and not much exceeding 50° over our southern counties and the north of France.

Wind light and variable over the United Kingdom and central Europe, and light or moderate from the Northward or North-Eastward over the greater part of northern Europe, France, and Spain. Some irregular cyclonic movements over the Mediterranean and Italy. Wind becoming Northerly in the west and north of our Islands by evening and increasing considerably in force. Northerly and North-Easterly current dying out over northern Europe and wind there becoming variable.

Barometer fallen in most regions, but risen over central Europe and Italy. Morning readings, highest, 30.1 ins. and upwards (1) over the Bay of Biscay and (2) over the White Sea. Lowest, 29.7 ins. and less in an irregular area covering central and southern Russia and the Black Sea; about 29.8 ins. in a small system over Algeria and below 29.9 ins. in another over Tunis. Russian depression becoming deeper by evening and a small shallow disturbance appearing over the south of Norway. Barometer falling slowly in most parts of Europe.

Monday, 12th May.

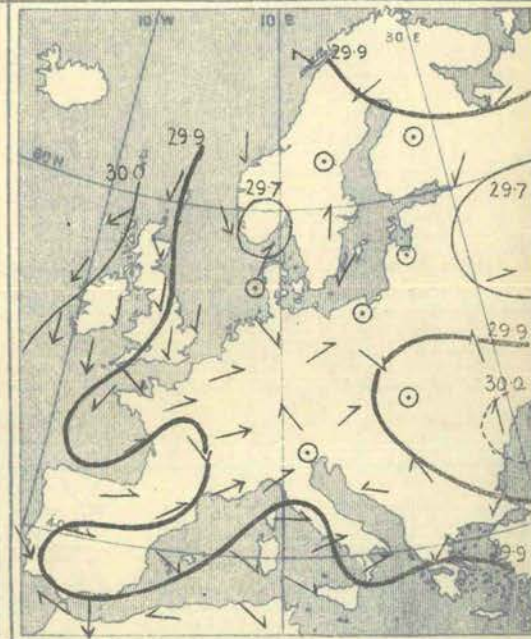
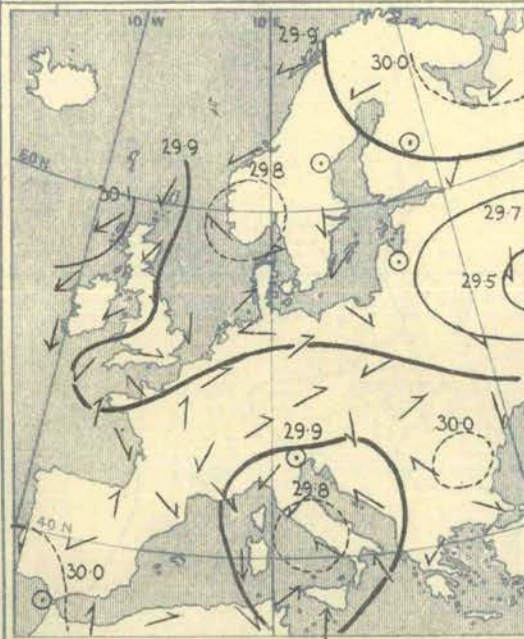
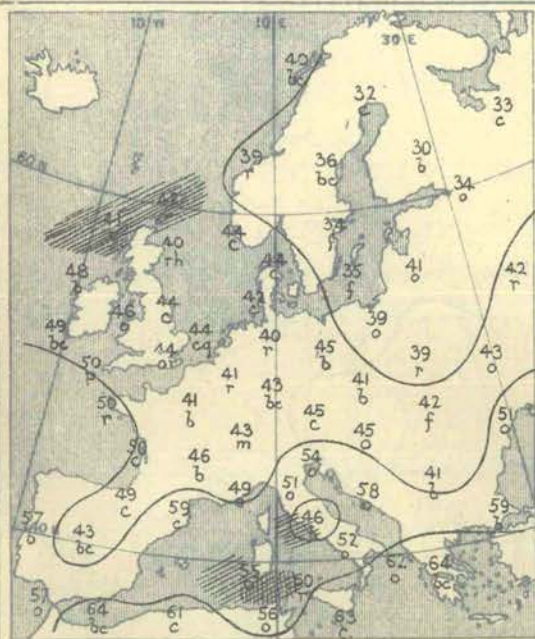
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull very generally, but again fine and bright at some French and Spanish stations. Showery in different parts of the United Kingdom and rainy in Brittany, the Netherlands, at the mouth of the Elbe, Warsaw, and also at Palermo. Showery later in most parts of our Islands, and rain falling in various districts of Norway, France, Germany, Austria-Hungary, and Italy—more than 1 inch at Lésina.

Temperature at 8 a.m., highest 64° at Athens and Nemours, 63° at Malta, and 62° at Brindisi. Highest in our Islands, 60° at Scilly. Lowest, 30° at Kuopio, 34° at Stockholm and St. Petersburg, 39° at Limoges, 40° at Bodo, 41° at Paris and Breslau, 43° at Madrid, and 49° at Nice and at Valencia Island. Only 46° at Rome, and 54° at Tunis. Rising during day to 58° at Roche's Point, to 60° or some degrees above in the south of France, 73° at Palermo, 74° at San Fernando, 75° at Constantinople, and 79° at Nemours. Not touching 50° at many of our own stations and over the northern half of Europe, and only rising to 59° at Rome.

Wind light to fresh from the Northward over the greater part of our Islands but drawing into South-East at Jersey and into West at Dungeness. Light and cyclonic in most parts of the Continent, but strong at Cagliari, Palermo and Malta. Force decreasing at these stations by evening, and wind veering towards North in the south-east of England and at Jersey. Cyclonic movements on the Continent become less pronounced except in the south of Norway. Barometer at 8 a.m., highest, 30.1 ins. and upwards (1) over the Bay of Biscay and (2) over the White Sea. Lowest, below 29.5 ins. in a depression a little to the east of Moscow; below 29.8 ins. (1) in another system over central Italy and the Tyrrhenian Sea, and (2) in a third over the south of Norway; below 29.9 ins. in a secondary system over the south and south-west of England, and in another shallow system over the south-west of Germany. Most disturbances moving eastwards, or dispersing later, but that in the south of Norway growing deeper and extending southwards.

Tuesday, 13th May.

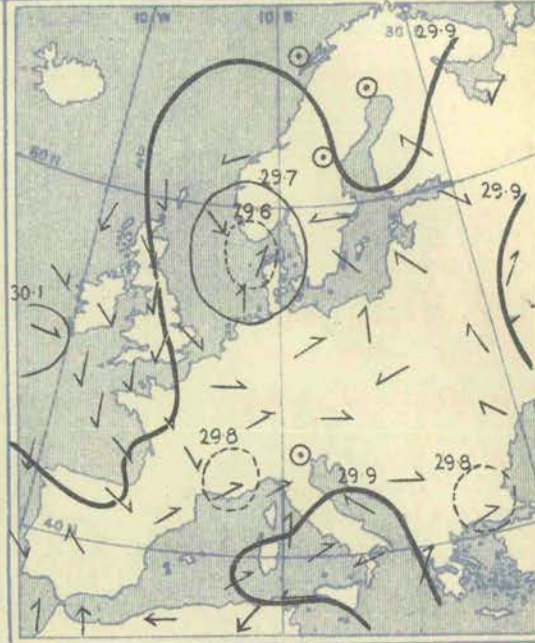
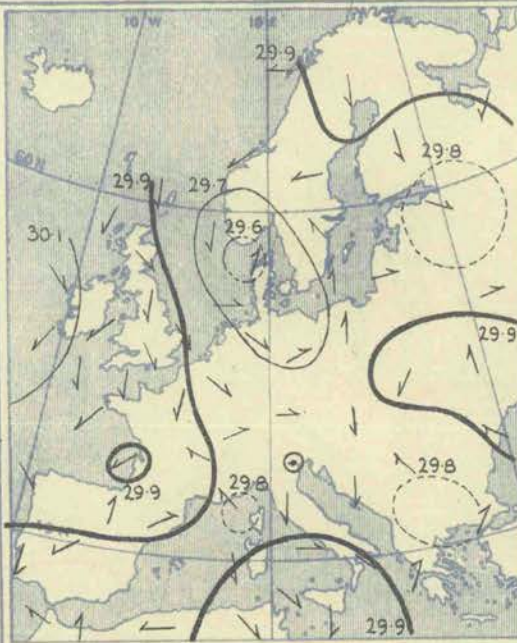
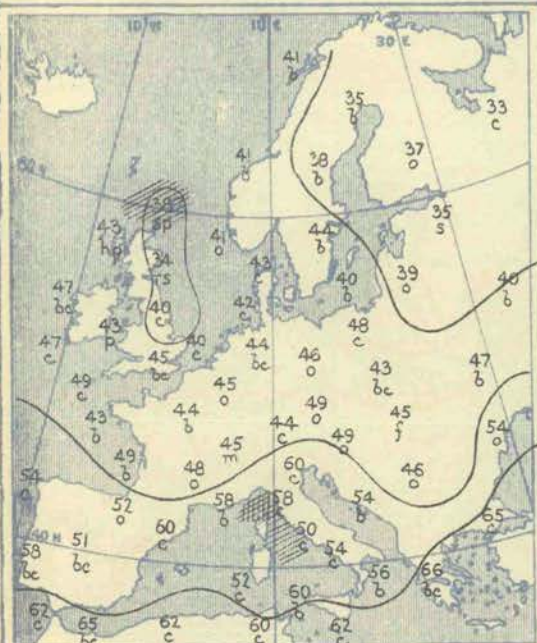
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in many regions, but cloudy or dull at several of our own stations, over Denmark and central Europe. Showery in a few parts of our Islands (sleet at Aberdeen), rainy at Copenhagen and Neu Fahrwasser, and snow falling at St. Petersburg. Rain becoming general over our Islands later, and also in most parts of the Continent, but weather continuing dry in Russia and the greater part of Scandinavia and Spain.

Temperature fallen over the United Kingdom, risen somewhat in most other regions. Readings at 8 a.m. highest, 66° at Athens, 65° at Constantinople and Nemours, 61° at Oporto and Palma. Lowest, 33° at Archangel, 35° at Haparanda and St. Petersburg, about 40° over central England, many parts of Scandinavia and at Moscow, 41° at Cracow, 44° at Paris and Limoges, and 50° at Rome. Maxima during day low except in extreme south. Below 50° in most parts of the United Kingdom; 54° at Paris and Berlin, 66° at Nice, 72° at San Fernando, 73° at Madrid, 77° at Athens, and 79° at Constantinople.

Wind in morning light and variable in most countries, but Northerly, moderate over our Islands and France, and light and cyclonic to the eastward of the North Sea. No general change taking place later, but wind increasing considerably in force from the Eastward in Tunis, and from various directions in Algeria. Wind backing at some of our own western stations.

Barometer in morning highest, above 30.1 ins. over and to the west of our extreme western coasts. Lowest, 29.6 ins. and less in a disturbance over the Skager Rack; 29.8 ins. and less (1) over the northern part of Russia; (2) over Turkey; and (3) over the Gulf of Genoa; 29.9 ins. and less over the west of France near Bordeaux. Barometer falling on our north and north-west coasts later, and a new disturbance advancing from Atlantic. Changes in pressure mostly slight and irregular elsewhere, but a decided decrease occurring in Tunis.

Wednesday, 14th May.

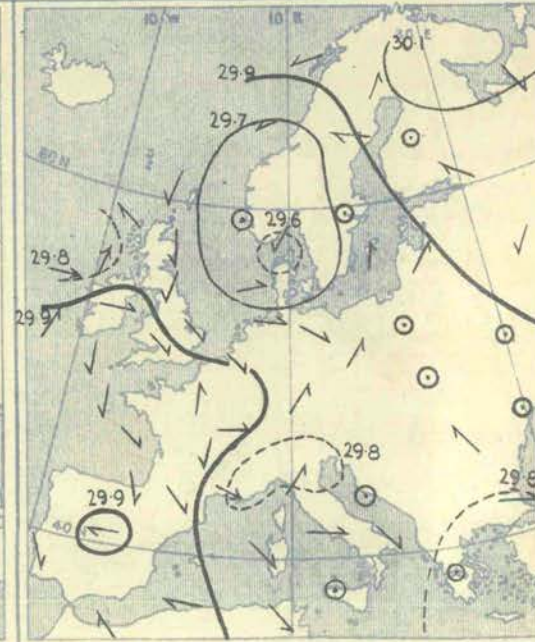
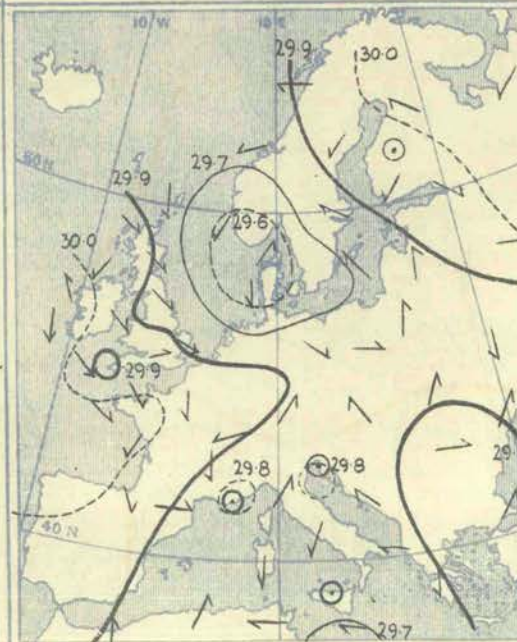
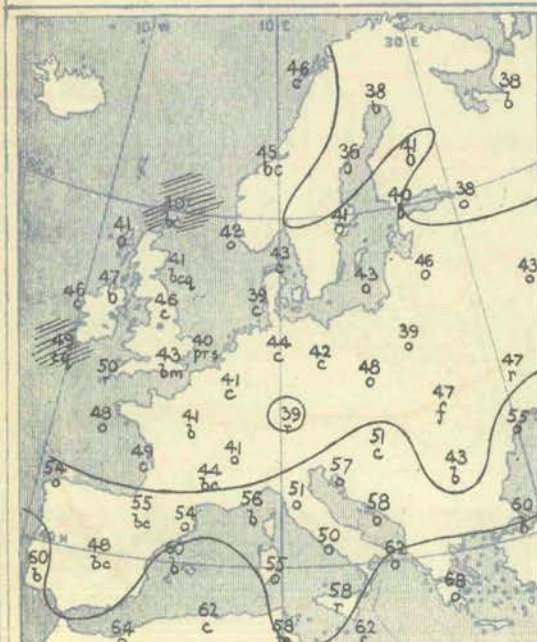
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in a few isolated parts of our area, but cloudy or dull as a whole, with rain in the Scilly Isles, at Leghorn and Kieff, and sleet showers at Great Yarmouth. Rain falling later over the United Kingdom, the north of France, Germany, Scandinavia, Austria, and in several parts of Italy and Spain; amounts not large generally, but 0.7 in. measured at Hernösand and 1.2 ins. at Naples.

Temperature showing no decided change and continuing low for season in nearly all regions. Readings at 8 a.m. highest, 68° at Athens, 64° at Nemours, 62° at Malta and Brindisi. Lowest, 36° at Hernösand, 38° at Haparanda, Archangel, St. Petersburg and Limoges, and 39° at Munich and Warsaw; 40° over central England, 41° at Paris, 48° at Madrid, and 50° at Rome and Naples. Maxima during day below 50° at several of our own stations and below 60° in most parts of France and Germany, but thermometer rising to 68° at Nice, Florence and Lisbon, to 72° at Palermo, and 77° in Greece, and 79° at Constantinople and Nemours.

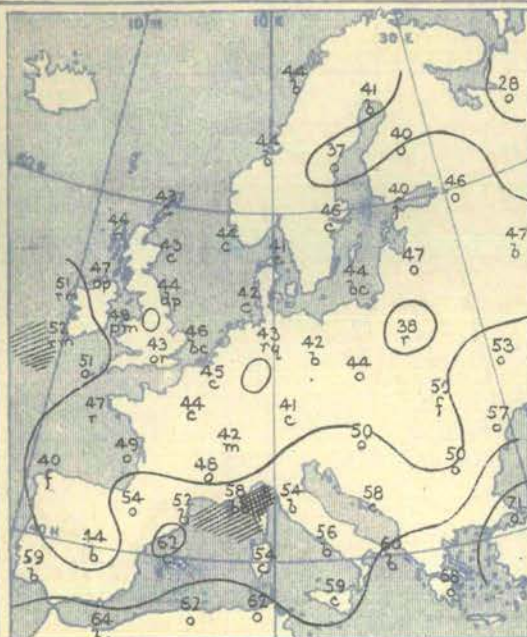
Wind in morning cyclonic and moderate over north-western Europe, but the North-Westerly wind in our Islands strong in places and the Westerly wind in Germany blowing strongly at Cuxhaven. Very light and variable airs prevailing over eastern and southern Europe. Wind changing but little over the north-western countries during day, but a cyclonic circulation of moderate to fresh winds setting in over Spain and northern Italy; a fresh North-Westerly gale reported at Leghorn at 6 p.m.

Barometer risen over Spain and the extreme north-east and south-east of Europe, fallen elsewhere—most at Malta. Morning readings highest, 30.0 ins. over the west of Ireland, the north-west of France, and the Bay of Biscay, and also in Lapland and the north-east of Russia; above 29.9 ins. over Transylvania, Turkey, and Asia Minor. Lowest, 29.6 ins. and less in a depression over Denmark and the south-west of Norway; below 29.7 ins. near Malta; below 29.8 ins. over the Riviera and the Gulf of Genoa, and also over the northern part of the Adriatic. A new disturbance approaching our north-west coasts by evening and a shallow system developing over central Spain.

Thursday, 15th May.

Temperature and Weather.

8 a.m.



Weather in morning dull and rainy over the United Kingdom, cloudy or dull in most other districts, with rain over Brittany, at Karlstad and Warsaw. Rain falling subsequently at almost all our own stations, in the west and north of France, the Netherlands and different parts of Germany and Austria and also in some Russian and Finnish districts.

Temperature changed rather irregularly, but risen somewhat in most places. Morning readings highest, 71° at Constantinople, 68° at Athens, 64° at Nemours, and 62° at Barcelona; highest in our Islands, 58° at Roche's Point. Lowest, 28° at Archangel, 56° at Frankfurt, 39° over central England, 44° along the west coast of Norway, over central France, and at Madrid and Prague, and 48° at Cape Sicié. Remaining below 50° all day on our east coast, but rising to 58° at Scilly, 66° at Nice, about 70° in several parts of Spain, over the more southern parts of the Mediterranean and the south of Italy, to 77° at Patras, and to 82° at Athens.

Barometer and Wind.

8 a.m.



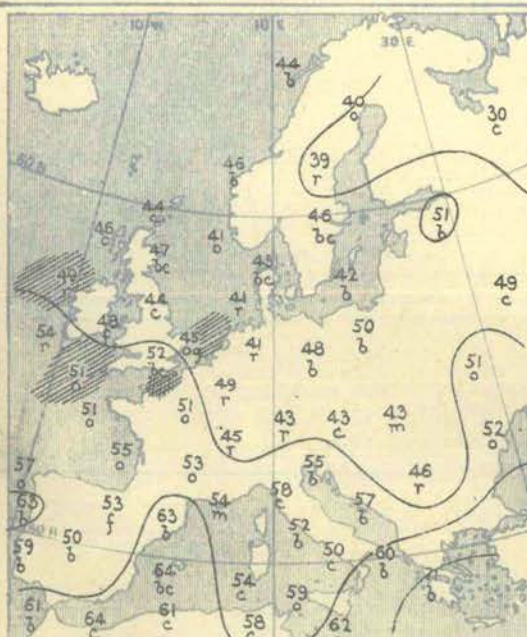
Wind at 8 a.m. South-Westerly over Ireland, France and north Germany, but drawing into South-East over Scandinavia and into East in Scotland. Mainly from some Westerly point over central Europe, and very light and variable over the south-eastern countries. Cyclonic over the Gulf of Genoa, the South-Westerly wind at Leghorn being strong to a gale. A complete cyclonic circulation setting in over our Islands by evening and also over central Spain. Wind force becoming moderate at Leghorn.

Barometer fallen decidedly over Ireland and Scotland and also in Turkey, risen over the Iberian Peninsula and the north-east and east of Russia. Morning readings highest, above 30.2 ins. over the White Sea and above 30.1 ins. over the north of Spain. Lowest, 29.6 ins. and less in a disturbance off our north-west coasts and also in a complex system over Norway; below 29.7 ins. over the south-western part of the Black Sea, and below 29.8 ins. in another disturbance over the Gulf of Genoa and the Riviera. Disturbance off our north-west coasts advancing over our northern counties by evening, and a small disturbance forming over central Spain.

Friday, 16th May.

Temperature and Weather.

8 a.m.

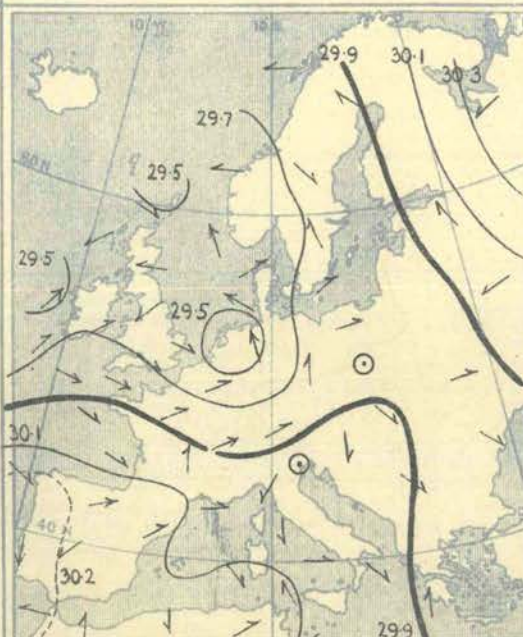


Weather in morning fine and bright at some Scotch and Norwegian stations, and at the majority of those in Southern Europe and on the shores of the Mediterranean; cloudy or dull elsewhere, with rain in Ireland, Western Germany, Denmark, at Helsingfors and Hérnösand, as well as at Limoges, Belfort and Hermanstadt. Rain falling later over north-western Europe generally, and more than 1.5 ins. at Pesaro.

Temperature fallen over Italy and Tunis, risen in most other regions. Readings at 8 a.m. ranging from 71° or 70° in Greece 64° at Nemours and Palma, and 63° at Barcelona and Oporto to 54° at Valencia (Ireland), 51° at Paris, St. Petersburg and Oxford, 44° or 43° over central Europe, and to 20° at Archangel. Risen subsequently to 59° in the south of Ireland and south-west of France, 68° at Nice, 73° at Perpignan, 75° at Florence, 77° at Madrid, 79° at Constantinople, and 82° at Athens. Remaining below 50° on our own north-east coast.

Barometer and Wind.

8 a.m.



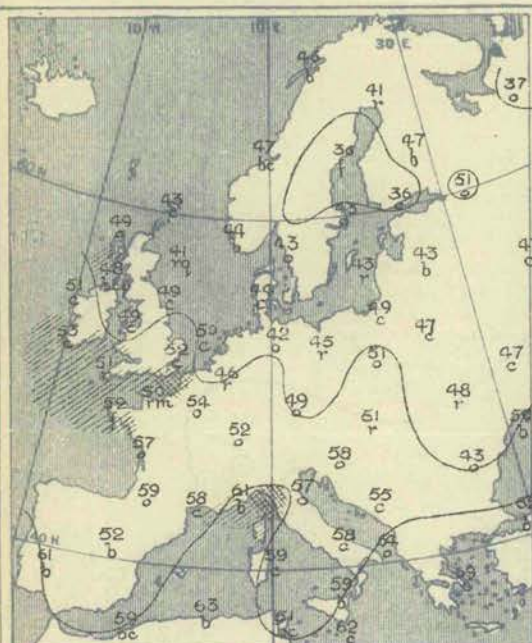
Wind in morning, North-Westerly over our northern counties, South-Westerly or Southerly over Germany, South-Easterly in Denmark, and Easterly in Scotland, South-Westerly and fresh to strong in the west of Ireland. Mostly light and variable in other districts, but fresh from the Northward at Lisbon, and light from the Eastward over northern Europe. Wind veering to West on our west coasts later, and blowing a moderate gale and backing to South-East on our east coasts. Light cyclonic circulations springing up over Spain and the south of Russia, and a moderate Westerly gale setting in at Leghorn.

Barometer at 8 a.m., highest, above 30.3 ins. in North Russia, and above 30.2 ins. over the western half of the Iberian Peninsula and the adjacent portion of the ocean. Lowest, about 29.4 ins. in a disturbance over Holland, and below 29.5 ins. in two other systems—one to the northward of the Shetlands, and the other off the north-west of Ireland; about 29.7 ins. near Kieff. Dutch disturbance moving north-eastwards later, and that off Ireland travelling to Scotland. A small shallow system forming over central Spain.

Saturday, 17th May.

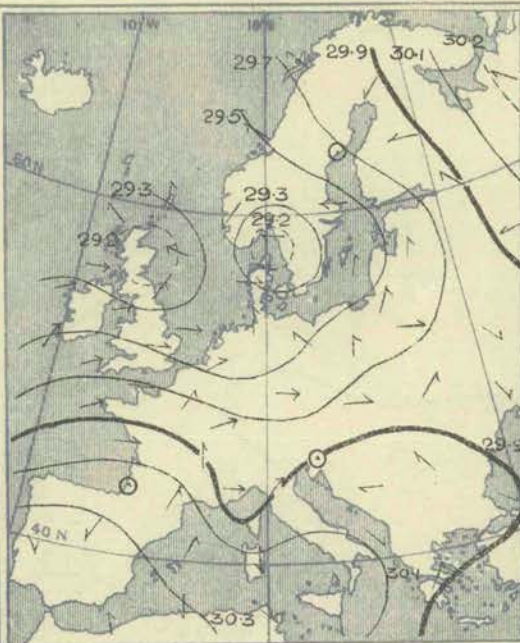
Temperature and Weather.

8 a.m.

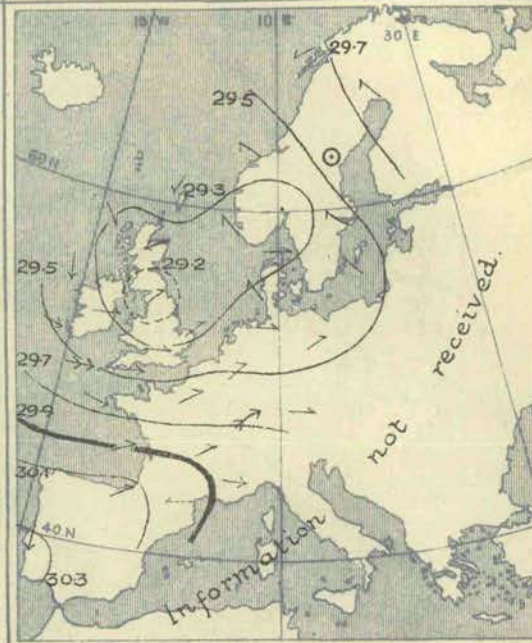


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in most places, but fine and bright in Norway and in many parts of southern Europe. Rain falling in Scotland, at several Swedish stations, over the Netherlands and Germany, as well as at Scilly, Jersey, and Le Mans. Fog prevailing on the coast of Brittany. Rain becoming general over north-western and western Europe later, and thunder and lightning occurring over central and eastern England. As much as 0.5 in. of rain at Aberdeen, Paris, Belfort, Orient, and in London, and 1.2 ins. at Munich.

Temperature risen in most regions, but fallen in Scotland and south-eastern Europe. Readings at 8 a.m. highest, 69° at Athens, 67° at Barcelona, 66° at Palma, 63° at Algiers, and 61° at Lisbon. Highest in our Islands between 53° and 50° in the south and south-west. Lowest, 36° at Helsingfors and Hangö, 41° at Aberdeen, 42° at Cuxhaven, and 43° at Memel. Rising during day to 50° at Bodö, 57° at Haparanda, 59° in the east and south-east of England and at Brussels, 66° at Biarritz, and 72° at Nice. Maximum readings not exceeding 43° at Aberdeen, 45° at Nairn, and 55° in Germany.

Wind showing two distinct cyclonic circulations—one around Scotland and the other around the north of Denmark. The Westerly current over England and Ireland rather strong in force, and the Easterly and North-Easterly current in the south of Scandinavia blowing a slight gale. Mainly moderate or light from the Westward and South-Westward over the southern countries (but strong at Leghorn), and light from the Eastward over north-eastern Europe. Wind veering to the Northward on our extreme western coasts during day and increasing to a gale from the Westward at Scilly. Force of the Easterly and North-Easterly wind decreasing in Scandinavia.

Barometer fallen over north-western and northern and risen over southern Europe. Readings at 8 a.m. highest, 30.3 ins. and upwards over the southern half of Spain and western Algeria, and above 30.2 ins. in the vicinity of Archangel. Lowest, about 29.1 ins. in a disturbance over the north of Denmark and in another system over the south of Scotland. Former depression growing less deep during day and latter moving slowly south-south-eastwards to the north of England.

GENERAL NOTES.

The general condition of the weather experienced over Europe during this week has been very unsettled and cold for the time of the year, with frequent rain over the United Kingdom and north-western Europe generally, and some considerable falls at times in some southern regions. During the earlier part of the period the barometer was highest over the Atlantic and our western coasts, and depressions moving south-eastwards, the wind over our Islands and their neighbourhood blew from north-west or north and was often fresh or strong in force. During the latter part of the time the distribution of pressure became somewhat modified, the barometer becoming highest over the Spanish Peninsula and the south-west of France on the one hand, and in north Russia on the other. Under these conditions the depressions from the Atlantic took a more easterly course, the wind in our Islands and their vicinity backed to West

or South-west, and temperature gradually rose to about its normal value. The change was, however, but temporary, for by the end of the period a disturbance of increasing intensity which had reaching Scotland from the westward, travelled in a southerly and south-easterly direction, and, the barometer rising briskly over our western and north-western districts, the wind veered to the Northward and North-Westward again over the United Kingdom and increased considerably in force, with a renewal of the low temperatures previously experienced. Southern Europe and the Mediterranean were also influenced by cyclonic disturbances, but they were mostly shallow and generally ill-defined, and, with one or two exceptions, produced no great increase in the force of the wind.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isohars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ———— = a heavy gale; ———— = a gale; ———— = a fresh to strong breeze; ———— = a light to moderate breeze; and ○ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; at 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 116.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNES	44.1	+ 3.6	38	+ 3	THURCASTON	23.2	- 17.6	21	- 17	BOURNEMOUTH	36.5	—	34	—
STEATHPEPPER SPA	38.2	- 1.8	34	- 1	MARGATE	29.1	- 14.7	27	- 14	SOUTHPORT	48.7	—	44	—
EDINBURGH	22.5	- 15.1	20	- 14	BROADSTAIRS	—	—	—	—	RHYL	—	—	—	—
MORPETH	42.5	—	38	—	EASTBOURNE	20.8	- 20.8	28	- 19	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	35.8	—	32	—	BRIGHTON	23.1	- 25.8	22	- 24	ABERDOVEY	40.9†	—	38†	—
YORK	28.5	- 12.5	26	- 11	WORTHING	23.6	—	22	—	TENBY	—	—	—	—
LOWESTOFT	40.3	—	37	—	BOGNOR	29.7†	—	28†	—	NEWQUAY	27.2	- 21.5	26	- 20
HOLLESLEY BAY	35.6	—	33	—	WATERGATE	19.7	—	18	—	TORQUAY	27.5	- 22.5	26	- 21
DUNMOW	31.1	—	29	—	WESTBOURNE	22.2†	- 28.5	21†	- 26	GUERNSEY	34.0†	- 24.0	32†	- 24
SHEFFIELD	28.2	—	26	—	VENTNOR HOSPITAL	19.1	- 32.1	18	- 30					
WORKSOP	28.7	- 9.9	26	- 10										

† The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 21.]
Fourth Series.

WEEK ENDING SATURDAY, MAY 24TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 122.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	30	52.5	39.9	45.9	2 below	Day-deg. 36	Day-deg. - 14	Day-deg. 6	Day-deg. + 1	Day-deg. 312	Day-deg. - 57	Day-deg. 658	Day-deg. + 97
	1. SCOTLAND, EAST	75	32	57.1	40.8	48.4	1 below	50	- 9	3	- 1	376	- 89	727	+114
	2. ENGLAND, N.E.	76	24	55.9	42.0	48.5	1 below	46	-12	0	- 2	460	- 9	522	+ 16
	3. ENGLAND, EAST	70	35	55.8	41.9	48.4	3 below	45	-30	0	- 2	533	- 61	516	- 39
	4. MIDLAND COUNTIES	71	34	57.6	41.8	49.2	2 below	51	-24	1	- 2	578*	- 44	523	- 40
	5. ENGLAND, SOUTH	72	35	57.4	43.2	49.9	3 below	55	-27	0	0	570	-105	358	- 55
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	64	29	55.4	40.9	47.8	3 below	45	-20	3	+ 1	473	- 36	483	+ 52
	7. ENGLAND, N.W.	67	32	54.8	43.2	48.7	3 below	47	-23	0	- 1	482†	- 53	421	+ 8
	8. ENGLAND, S.W.	71	32	57.5	42.9	49.7	3 below	54	-20	0	- 1	613	- 53	324	+ 6
	9. IRELAND, NORTH	66	33	54.5	42.8	48.3	2 below	44	-22	0	- 1	484	- 99	338	- 27
	10. IRELAND, SOUTH	68	32	57.5	43.8	50.2	2 below	57	-18	0	- 1	671	- 58	240	- 28
	-CHANNEL ISLANDS.	63	43	56.6	46.3	51.2	2 below	64	-19	0	0	808	- 4	99	- 24

DISTRICTS. (See p. 122.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 5	10ths of in. 1 less	106	+14	19.4	+ 0.4	28	-11	24	- 9	474	+ 22	28	+ 1	
	1. SCOTLAND, EAST	5	4	1 less	85	+ 8	8.7	- 2.4	40	- 1	35	- 1	501	+ 2	30	0	
	2. ENGLAND, N.E.	4	4	0 (average)	71	- 2	7.0	- 1.6	42	- 4	37	- 4	525	+ 11	29	0	
	3. ENGLAND, EAST	5	7	3 more	74	0	7.2	- 1.2	25	-20	23	-18	564	- 38	31	- 2	
	4. MIDLAND COUNTIES	3	5	0 (average)	68	- 2	8.4	- 1.3	47	+ 6	43	+ 5	498*	+ 10	31	0	
	5. ENGLAND, SOUTH	3	4	0 (average)	65	- 4	8.1	- 1.9	39	-11	36	-11	570	- 55	22	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	6	0 (average)	94	+13	18.8	- 0.1	38	- 7	34	- 6	501	- 13†	30	- 1	
	7. ENGLAND, N.W.	4	3	4 more	85	+11	11.0	- 0.6	49	+ 5	44	+ 4	594	+ 82	36	+ 5	
	8. ENGLAND, S.W.	3	3	2 less	75	- 3	11.1	- 3.8	59	+11	55	+10	572*	- 40	34	- 3	
	9. IRELAND, NORTH	5	4	1 less	102	+15	13.7	+ 1.5	36	- 6	32	- 5	515	+ 10	31	+ 1	
	10. IRELAND, SOUTH	3	2	4 less	82	- 1	13.2	- 2.3	47	+ 1	42	+ 1	555	- 15	33	- 1	
	- CHANNEL ISLANDS.	3	4	1 less	80	- 2	11.0	- 1.0	60	+ 4	56	+ 4	625	- 88	36	- 5	

* This value has been altered owing to the receipt of further information.

† The corresponding values in last week's report should read "435" and "-6" respectively.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather continued cold and unseasonable, with occasional rain and hail, until the period drew towards its close, when it became fair and warm in all districts. Thunder and lightning were experienced at some of the more northern stations on Sunday.

Temperature was much below the mean until the 22nd, when it rose briskly, the deficit for the week varying from 1° in Scotland N.E. and England E. to 2° or 3° in other parts of the Kingdom. The highest of the maxima, which occurred in Scotland on Friday, and in most parts of England and Ireland on Saturday, ranged from 76° in England N.E., 75° in Scotland E. and between 72° and 70° over England generally to 64° in Scotland W., and 63° in the Channel Islands. The lowest of the minima were recorded about the middle of the week, and ranged from 29° in Scotland W., 30° in Scotland N. and 32° in Scotland E., England N.W. and S.W. and Ireland S., to 35° in England E. and S. and to 42° in the Channel Islands.

Rainfall exceeded the mean in England E., and N.W., but in the other districts it either just equalled or was less than the normal amount.

Bright Sunshine was deficient over the Kingdom as a whole, but was in excess of the mean in the Midland Counties, England S.W. and N.W., Ireland S. and the Channel Islands. The percentage of the possible duration ranged from 56 in the last named district, 55 in England S.W. and 37 in England N.E. to 24 in Scotland N. and to 23 in England E.

Barometer and Wind. During the earlier part of the week some cyclonic disturbances of considerable energy travelled in an easterly or south-easterly direction over the United Kingdom and the North Sea, and were accompanied by fresh or strong Westerly to North-Westerly or Northerly winds. Towards the end of the week, however, the low pressure systems were shallow and moved in a more northerly track, while our southern districts were under the influence of an anticyclone extending eastwards from the Atlantic. The winds experienced were consequently light in force, and mainly between North-West or West and South-West; temperature rose very considerably, and the weather became more seasonable generally.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
										Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
O. SCOTLAND, N	Sumburgh Head	53	35	49.7	39.1	44.1	- 1.6	27	8	6	0.45	+ 0.04	24.4	- 18.8	21	- 16
	Stornoway	58	36	52.6	41.0	46.5	- 1.1	36	3	6	0.49	- 0.05	*	*	*	*
	Wick	66	36	55.1	40.9	47.6	- 0.2	44	3	4	0.18	- 0.23	*	*	*	*
	Lairg												*	*	*	*
	Glencarron	55	32	50.0	36.9	43.1	- 5.4	29	14	6	1.18	+ 0.14	*	*	*	*
	Fort Augustus	64	30	54.3	40.1	46.8	- 3.0	42	5	6	0.44	- 0.03	23.8	- 6.8	21	- 5
1. SCOTLAND, E	Fort William	59	34	53.4	41.6	47.2	- 3.1	38	1	5	0.43	- 0.37	21.9	- 18.5	19	- 13
	Nairn	68	36	56.9	41.3	48.6	- 1.1	40	2	6	0.46	+ 0.06	*	*	*	*
	Aberdeen	75	38	57.6	41.6	49.1	+ 0.3	51	1	5	0.38	- 0.07	51.6	+ 8.0	44	+ 6
	Braemar	68	34	52.9	39.1	45.6	- 0.9	37	8	6	0.53	+ 0.03	*	*	*	*
	Ochertyre	72	32	61.1	41.7	50.8	+ 0.4	63	1	3	0.25	- 0.29	*	*	*	*
	Leith	66	37	58.7	42.9	50.3	- 0.2	58	0	4	0.54	+ 0.16	*	*	*	*
2. ENGLAND, N.E.	Marchmont	69	33	55.3	37.9	46.1	- 2.4	46	11	4	0.32	- 0.22	43.8	+ 1.9	38	+ 1
	Alnwick Castle	76	38	60.5	41.7	50.5	+ 1.9	61	1	4	0.31	- 0.15	*	*	*	*
	Durham	72	36	56.0	42.0	48.6	- 0.8	46	0	3	0.46	+ 0.02	38.8	- 0.4	34	- 1
	Shields	71	37	55.3	42.0	48.3	- 0.8	44	0	4	0.41	+ 0.04	*	*	*	*
	Scarborough	66	37	54.6	41.9	47.9	- 2.0	42	0	6	0.67	+ 0.23	46.1	-	41	-
	Spurn Head	63	40	53.1	43.0	47.8	- 2.5	41	0	4	0.34	- 0.01	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	67	34	55.7	41.4	48.1	- 3.6	45	2	5	0.43	0.00	*	*	*	*
	Hillington	69	36	55.7	41.6	48.2	- 3.3	45	1	4	1.12	+ 0.71	23.5	- 23.9	21	- 22
	Yarmouth	61	40	52.9	42.6	47.4	- 4.3	38	0	6	0.51	+ 0.11	*	*	*	*
	Geldeston	68	35	54.4	41.6	47.6	- 3.7	41	1	5	0.61	+ 0.21	17.2	- 32.8	16	- 30
	Cambridge	70	36	57.2	40.9	48.6	- 4.1	51	3	4	0.82	+ 0.39	31.4	- 14.7	29	- 13
	Felixstowe	68	38	58.4	42.9	50.2	- 0.2	57	0	5	0.38	-	28.9†	- †	26†	- †
4. MIDLAND COUNTIES	Rothamsted	67	36	56.1	41.8	48.5	- 3.0	46	1	4	0.60	+ 0.14	37.6	- 6.9	34	- 6
	Bawtry (Hesley Hall)	69	38	57.4	42.6	49.6	- 1.9	53	0	3	0.41	- 0.04	*	*	*	*
	Loughborough	68	36	58.0	41.4	49.2	- 3.3	53	2	3	0.71	+ 0.24	*	*	*	*
	Colly Weston (Stamford)	67	35	56.9	41.1	48.5	- 3.7	49	3	5	0.51	-	*	*	*	*
	Cheadle	62	34	54.3	40.8	47.2	- 2.9	41	3	4	0.54	0.00	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	68	36	55.6	42.3	48.6	- 2.6	46	0	3	0.66	+ 0.13	33.9	-	31	-
5. ENGLAND, S.	Churchstoke	68	34	57.6	41.1	48.9	- 1.3	52	3	4	0.72	+ 0.23	60.3	+ 16.1	54	+ 14
	Hereford	71	36	60.7	41.8	50.7	- 1.9	62	1	3	0.34	- 0.13	*	*	*	*
	Cirencester	70	37	59.4	42.0	50.3	- 1.0	58	0	3	0.41	- 0.08	54.8	+ 8.4	50	+ 8
	Oxford	71	39	55.3	42.9	50.1	- 2.6	57	0	3	0.38	- 0.03	41.4	- 3.1	38	- 3
	London	69	40	58.0	43.7	50.4	- 3.6	59	0	4	0.32	- 0.07	34.6†	- 7.2†	31†	- 7†
	Swarraton (Alresford)	69	37	57.4	42.0	49.2	- 1.8	50	0	2	0.43	- 0.01	*	*	*	*
6. SCOTLAND, W.	Dungeness	67	36	56.1	43.9	49.6	- 2.7	53	0	3	0.34	+ 0.04	25.4	-	23	-
	Hastings (St. Leonards)	68	39	55.9	43.3	49.2	- 3.2	50	0	3	0.54	+ 0.18	35.8	- 17.5	33	- 16
	Southampton	72	38	60.5	43.7	51.6	- 2.4	67	0	4	0.44	+ 0.03	45.1	- 4.2	41	- 5
	Portland Bill	66	40	56.9	45.0	50.6	- 1.6	60	0	2	0.16	-	*	*	*	*
	Shaftesbury	67	35	56.7	41.0	48.4	- 3.1	49	3	4	0.34	- 0.13	*	*	*	*
	Laudale (Loch Sunart)	62	36	53.8	41.3	47.2	- 3.5	39	2	6	0.81	- 0.04	*	*	*	*
7. ENGLAND, N.W.	Glasgow	59	35	53.7	41.6	47.3	- 3.0	39	1	5	0.49	- 0.07	25.3	- 12.8	22	- 11
	Cally	63	29	58.4	37.6	47.4	- 3.0	56	12	3	0.42	- 0.23	*	*	*	*
	Douglas (Isle of Man)	64	36	55.7	43.2	49.1	- 1.1	50	0	4	0.75	+ 0.25	51.3	- 0.4	45	- 1
	Newton Reigny	67	32	56.4	39.7	47.6	- 1.4	49	6	4	0.69	-	38.7	-	34	-
	Stonyhurst	61	28	53.9	42.9	48.1	- 2.7	43	0	4	0.56	- 0.07	43.9	- 0.3	39	- 1
	Blackpool	58	36	53.6	42.5	47.7	- 3.7	40	0	5	0.83	+ 0.37	49.7	+ 4.5	44	+ 4
8. ENGLAND, S.W.	Manchester (Prestwich)	60	35	55.3	41.9	48.2	- 2.7	44	0	4	0.94	+ 0.38	39.5	-	35	-
	Liverpool Obs. (Bidston)	62	39	53.9	44.3	48.8	- 3.3	48	0	4	0.34	+ 0.42	45.1	-	40	-
	Chester	65	37	57.4	43.6	50.1	- 2.9	57	0	14	11.29	-	*	*	*	*
	Llandudno	63	42	55.2	45.4	50.0	- 2.1	56	0	5	0.88	+ 0.46	56.4	+ 10.8	50	+ 8
	Holyhead	59	42	52.9	44.9	48.7	- 3.0	47	0	3	0.69	+ 0.28	*	*	*	*
	Llandovery	67	38	59.1	41.7	49.9	- 2.1	57	1	4	0.24	- 0.37	*	*	*	*
9. IRELAND, N.	Pembroke	61	40	53.3	44.1	48.4	- 2.7	45	0	4	0.36	- 0.09	57.9	+ 6.6	53	+ 6
	Clifton	69	37	59.6	43.7	51.2	- 1.2	64	0	2	0.38	- 0.14	*	*	*	*
	Bath	68	35	59.6	42.7	50.6	- 2.4	60	0	2	0.52	-	49.6	-	46	-
	Arlington (N. Devon)	61	35	54.9	41.3	47.7	- 3.2	43	2	2	0.35	- 0.29	*	*	*	*
	Cullompton	71	32	61.1	41.2	50.6	- 2.2	64	2	2	0.39	- 0.08	59.2	+ 13.5	54	+ 12
	Falmouth	69	39	55.3	44.2	49.4	- 3.3	52	0	2	0.23	- 0.33	70.1	+ 17.0	65	+ 16
10. IRELAND, S.	Plymouth	65	39	56.7	44.2	50.1	- 3.8	57	0	3	0.11	- 0.34	64.8	+ 14.9	60	+ 14
	Malin Head	54	38	50.4	42.3	46.1	- 4.1	29	0	7	0.46	-	*	*	*	*
	Edenfel (Omagh)	62	37	55.0	42.6	48.4	- 1.6	45	0	4	0.56	+ 0.01	*	*	*	*
	Blacksod Point	58	37	53.4	44.7	48.8	- 2.6	48	0	5	0.28	-	*	*	*	*
	Markree Castle	64	38	56.5	42.9	49.3	- 0.8	51	0	4	0.23	- 0.35	36.3	- 6.0	32	- 6
	Armagh	65	33	57.1	41.7	48.9	- 2.0	50	1	5	0.27	- 0.22	34.8	- 7.2	31	- 6
CHANNEL ISLANDS	Donaghadee	66	39	54.7	42.6	48.3	- 2.6	44	0	4	0.71	+ 0.21	*	*	*	*
	Dublin	68	38	58.0	44.5	50.9	- 1.7	62	0	4	0.20	- 0.26	46.7	- 1.4	42	- 1
	Parsonstown	64	32	57.7	40.9	48.8	- 3.0	52	3	2	0.16	- 0.37	44.1	+ 2.4	40	+ 2
	Kilkenny	65	34	58.3	42.7	50.0	- 2.0	56	0	2	0.16	- 0.33	*	*	*	*
	Roche's Point	65	40	58.3	45.0	51.3	- 1.7	65	0	3	0.07	- 0.58	*	*	*	*
	Valencia	62	36	55.6	45.1	50.0	- 2.6	56	0	4	0.16	- 0.53	48.9	+ 1.4	44	+ 1
CHANNEL ISLANDS	Killarney	64	37	58.5	44.6	51.1	- 1.1	64	0	2	0.60	- 0.08	*	*	*	*
	Foynes	61	36	55.8	43.6	49.3	- 2.5	51	0	3	0.12	- 0.40	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	44	55.6	46.1	50.6	- 2.4	60	0	3	0.09	- 0.29	56.6	-	52	-
	Jersey	63	43	57.6	46.4	51.7	- 2.4	68	0	3	0.61	+ 0.18	57.9	+ 1.1	54	+ 1

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *St* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

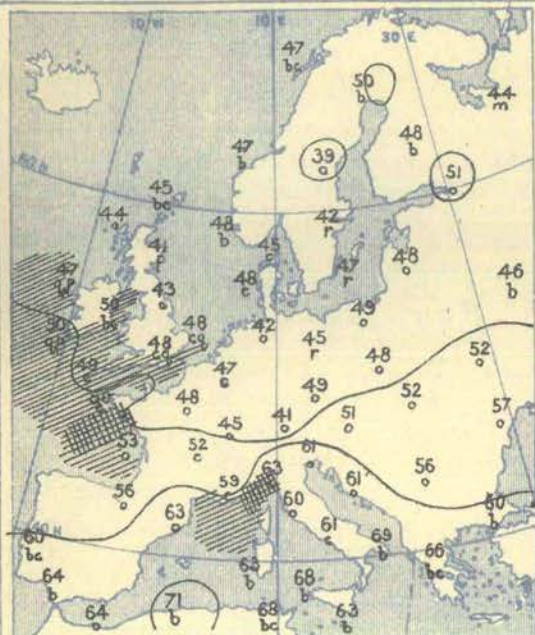
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 18th May.

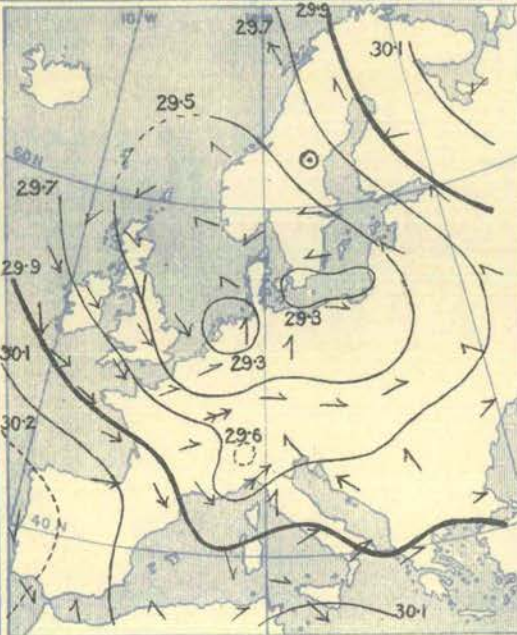
Temperature and Weather.

8 a.m.

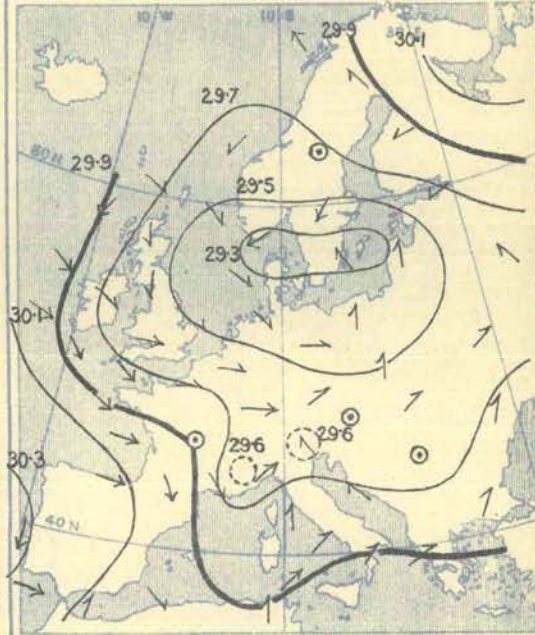


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull as a whole, but fine in various parts of northern, southern, and south-eastern Europe. Showery over our Islands and rain falling over the Baltic and at Helsingfors, as well as at Berlin and Frankfurt. Rain experienced during the ensuing 24 hours in nearly all regions, but weather remaining dry over the major portions of Spain, Italy and Russia. More than 1.1 ins. of rain falling at Charleville (north-east of France). Temperature at 8 a.m., highest, 71° at Algiers, 69° at Brindisi, 68° at Malta and La Caille, and 66° in Greece; above 60° in the south-west of Spain, and on most Mediterranean shores, but below it in the Riviera. Lowest, (1) 33° at Hango, and 39° at Hernösand, (2) 41° at Aberdeen, and 43° at Shields, (3) 41° at Munich. Below 50° over the northern half of Europe generally, but as high as 56° at Uleaborg. Rising during day to 57° in London and at Berlin, 64° at St. Petersburg, 72° at Nice, San Fernando, Madrid, and Malta, 77° at Brindisi, 80° at Constantinople and Palermo, and 84° at Oran and Algiers.

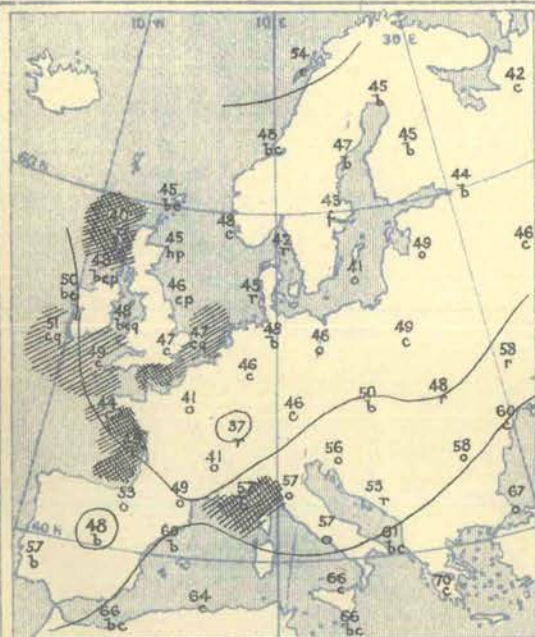
Wind in morning fresh to very strong from the North-Westward over the United Kingdom and the north and west of France, moderate or light from between West and South over central and eastern Europe, and drawing into South-East and South over Scandinavia. South-Westerly or Southerly over Italy and blowing a gale at Leghorn. No material change during day as a whole, but wind in north Germany veering to North-West, and South-Westerly gale at Leghorn moderating.

Barometer at 8 a.m., 30.2 ins. and upwards, over the western part of the Spanish Peninsula and the neighbouring portion of the ocean, and above 30.1 ins. over the White Sea. Lowest, 29.3 ins. and less, in a complex cyclonic system with one centre near the north coast of Holland and the other in the southern part of the Baltic, below 29.6 ins. in a small disturbance near Turin. Former depression moving north-eastwards, later, but that near Turin remaining almost stationary, and a similar minimum appearing over the northern part of the Adriatic.

Monday, 19th May.

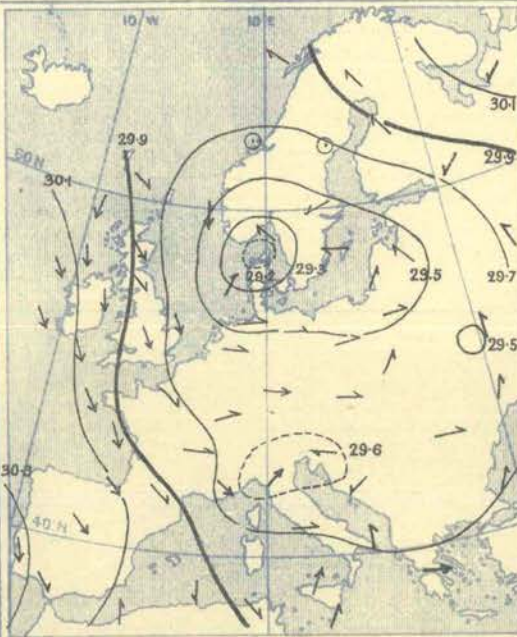
Temperature and Weather.

8 a.m.

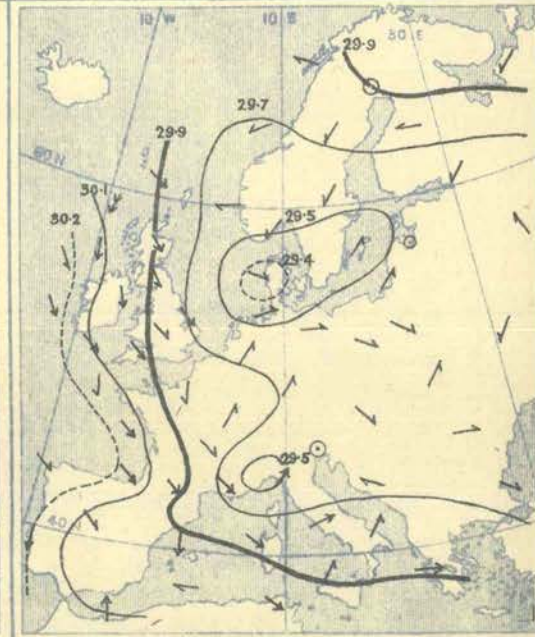


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Spain, Algeria and Finland, cloudy or dull in all other regions. Very changeable, squally and showery over the United Kingdom and France, rainy over Denmark, at some German stations, Lemberg and Kieff, and also at Lesina. Rain falling in nearly all parts of Europe during day, but amounts not large.

Temperature at 8 a.m., highest, 70° at Patras, 67° at Constantinople, 66° at Oran, Malta and Palermo, and 60° at Pesaro and Barcelona. Lowest, (1) 40° at Stornoway, (2) 37° at Belfort, 41° at Lyons, Limoges and Paris, (3) 42° at Archangel, (4) 41° at Wisby and 42° at the Scaw. Rising subsequently to 81° at Nemours, 79° at Constantinople, 77° at Athens, 72° at Malta and Palermo, about 70° at some Spanish stations, 68° at Hermanstadt, 65° at Nice and 59° at Bodo. Remaining below 55° at most British and French stations and not touching 50° at our own eastern and northern stations and in the east of France.

Wind in morning showing three distinct cyclonic circulations, one around Denmark, another around northern Italy and the third over the south-west of Russia. The Northerly and North-Westerly currents of the first two movements, prevailing over our Islands, the North Sea, and the west of France very fresh to very strong in force, but elsewhere generally light or moderate. Wind decreasing somewhat in force over our Islands by evening, but increasing in some parts of Italy and the Mediterranean.

Barometer at 8 a.m. 30.3 ins. and upwards over Portugal and about 30.2 ins. in the extreme north-east of Russia. Lowest, 29.2 ins. and less, in a rather deep disturbance over the north of Denmark, below 29.5 ins., in a small system near Kieff, and below 29.6 ins. in a third over northern Italy. Danish depression growing much less deep later and that over Russia altogether dispersing, but Italian system increasing somewhat in energy.

Tuesday, 20th May.

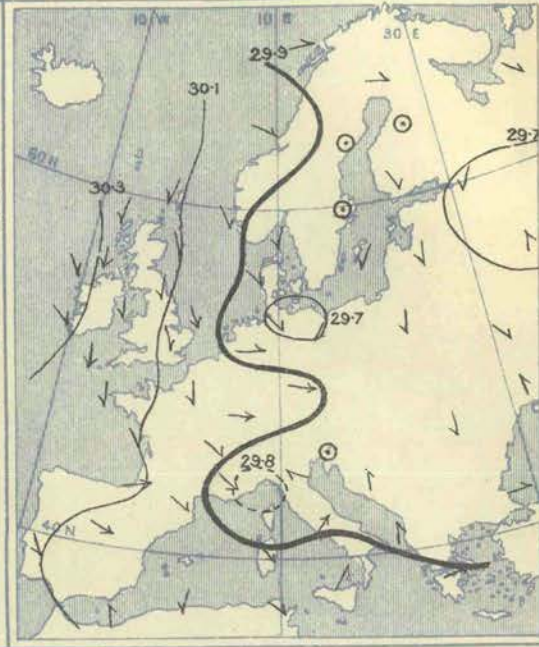
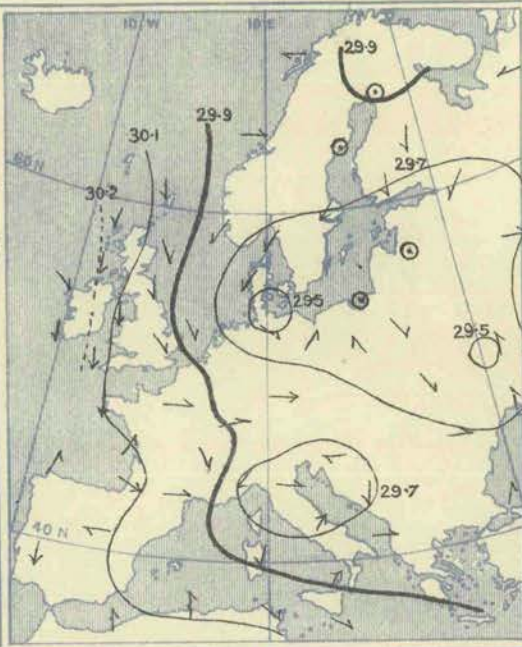
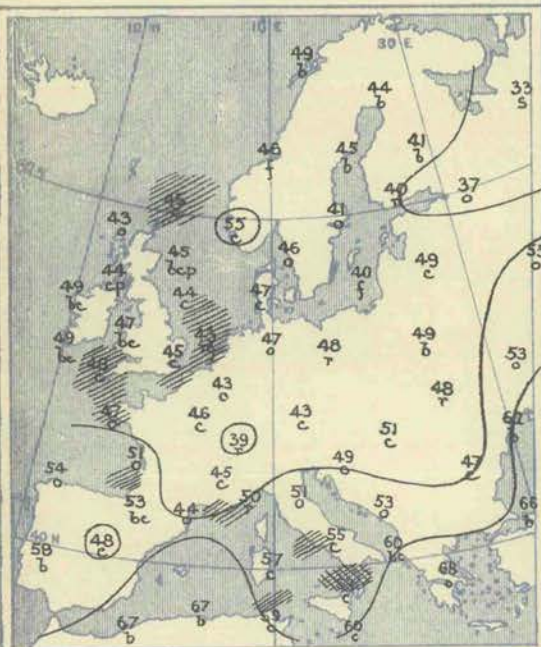
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over many parts of northern Europe, the Iberian Peninsula and Algeria; very changeable elsewhere, raining in several places, squally over the British Islands. Rain becoming very general later over the western parts of Europe, but sporadic over the British Islands and northern countries; thunder and hail at Fano.

Temperature fallen slightly over the British Islands and more decidedly over southern and south-eastern Europe. Morning readings ranging from 63° at Patras, 67° at Nemours and Algiers, 54° at Corunna, 58° at Kharkov and 49° in the west of Ireland, to 43° at Yarmouth and Wick, 40° at Wisby, and 33° at Archangel, rising later only to between 55° and 50° over the south of England, but touching 70° or more on the southern side of the North Sea, 81° at Biskra (Algeria).

Wind still Northerly over the United Kingdom, but of less force than of late, very variable over France and the Mediterranean, and blowing strongly in some places; North-Easterly over the south of Scandinavia, very variable but largely Westerly over the other parts of the Continent. The Northerly current moderating gradually during the day at the most western stations, but blowing very strongly at Spurn Head.

Barometer highest, 30.2 ins. and more in the west of Ireland, and 29.93 ins. at Haparanda. Lowest, 29.5 ins. and less in a depression over Holstein and below 29.7 ins. in another over the northern parts of the Adriatic, Italy and in Corsica. Barometer rising in the British Islands all day and the two depressions showing a tendency to fill up.

Wednesday, 21st May.

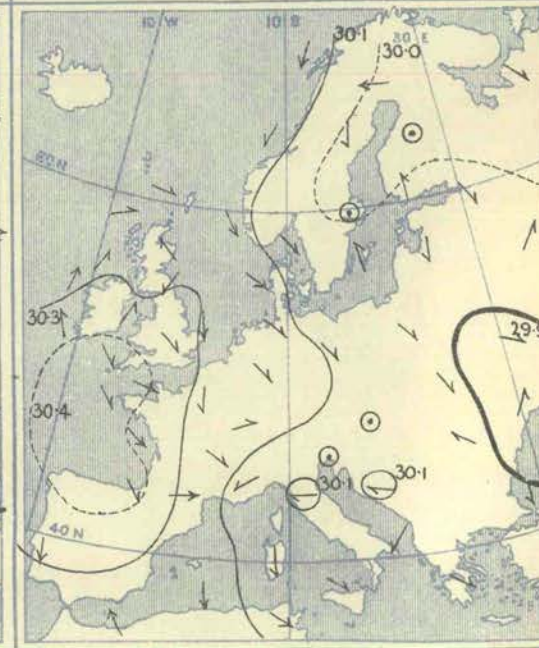
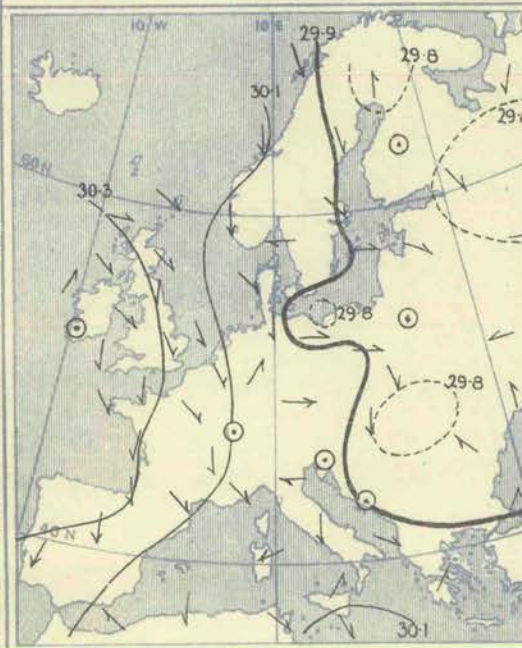
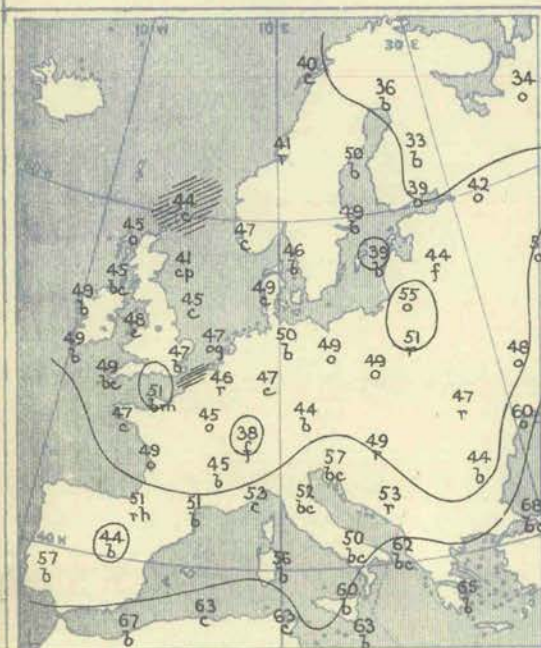
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over the Gulf of Bothnia, at several of our own stations, over Spain, south-eastern Europe and on most of the shores of the Mediterranean; cloudy or dull elsewhere, with showers at Aberdeen, rain at Christiansund, Warsaw, Lemberg, Brussels, and Lesina, and hail and rain at Biarritz. Rain falling later over the north and west of our Islands, the south and east of France, in Austria, Germany, Italy and the north of Spain. Amounts not large as a rule, but 0.63 in. falling at Buda-Pesth, 1.05 ins. at Palermo, and 1.22 ins. at Nice.

Temperature showing no decided change, 8 a.m., readings ranging from 68° at Constantinople, 67° at Nemours, 65° at Athens, and 63° at Malta and La Calle, to less than 50° at nearly all stations in the United Kingdom, France, Germany, Austria and the more northern countries, and to 33° at Kuopio. Rising subsequently to within a few degrees of 60° in a few British and Irish localities, to 68° at Nice and Lisbon, 70° at Brindisi and Malta, about 75° at Constantinople and Athens, and to 81° at Nemours and Tunis.

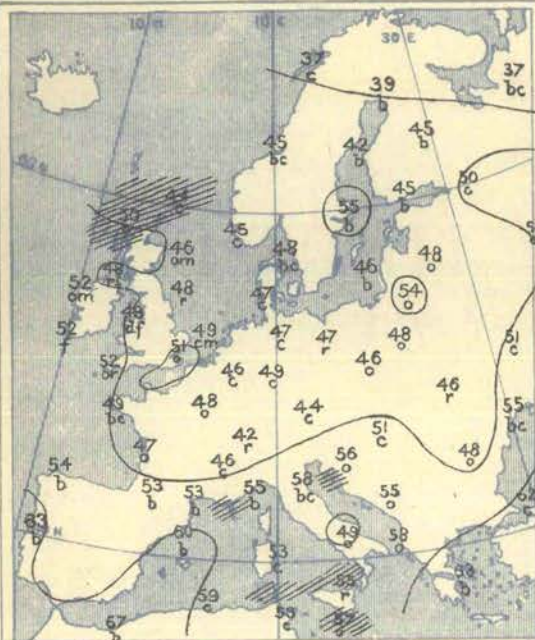
Wind in morning moderate or light from the North-Westward or Northward over the western countries, and light and irregularly cyclonic in most other regions. Not much change as a whole later, but North-Westerly wind increasing somewhat in force in Denmark and wind backing to the Southward or South-Westward on our own western and northern coasts.

Barometer risen in almost all parts of our area. Morning readings, highest, 30.3 ins. and upwards over the western half of our Islands, Brittany, the north of Spain and the adjacent portion of the Atlantic. Lowest, 29.8 ins. and less, in four minima over the eastern half of Europe one over Lapland, another over northern and central Russia, a third over north Germany and a fourth over Galicia and the north-west of Hungary; about 29.9 ins. over the Gulf of Genoa. Continental cyclonic systems mostly dispersing by evening, but barometer falling on our own north-western coasts under the influence of a disturbance approaching from the Atlantic.

Thursday, 22nd May.

Temperature and Weather.

8 a.m.

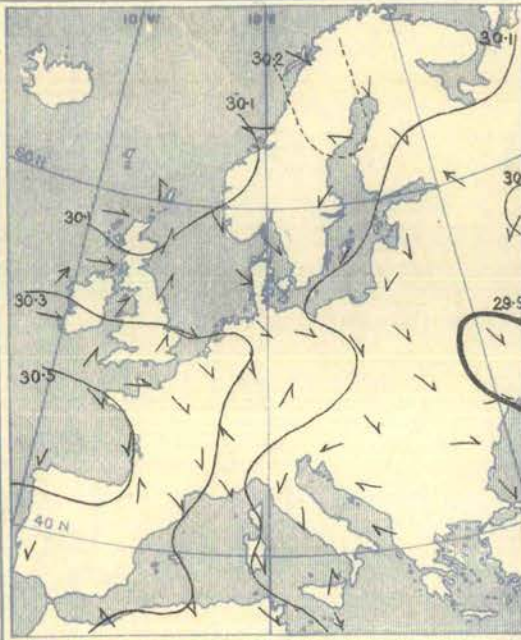


Weather in morning cloudy or dull over the United Kingdom generally, with fog on some parts of our western coasts and rain at many of our western and northern stations. Fine over the greater part of France and Spain, as well as in Scandinavia, Denmark and Finland, but cloudy over Italy and the eastern and central parts of the Continent, with rain at Berlin, Prague, Lemberg and Palermo. Rain falling later over nearly the whole of western, central and southern Europe, heavily in places, the amount reported at Riga being as large as 2.8 ins.

Temperature risen in most of the western and northern countries but changed irregularly elsewhere. Morning readings, highest, 67° at Nemours, 63° at Oporto and Athens, and 62° at Patras and Constantinople; above 55° in most parts of southern Europe. Lowest, 37° at Bodö and Archangel, 39° at Haparanda and 42° Herrö and Belfort. Rising during day to 55° and upwards over the United Kingdom generally, to 61° at Aberdeen and to 62° at Nain and Roche's Point; exceeding 60° over nearly the whole of southern Europe and exceeding 70° over the Spanish peninsula, the highest reading being 77° at San Fernando.

Barometer and Wind.

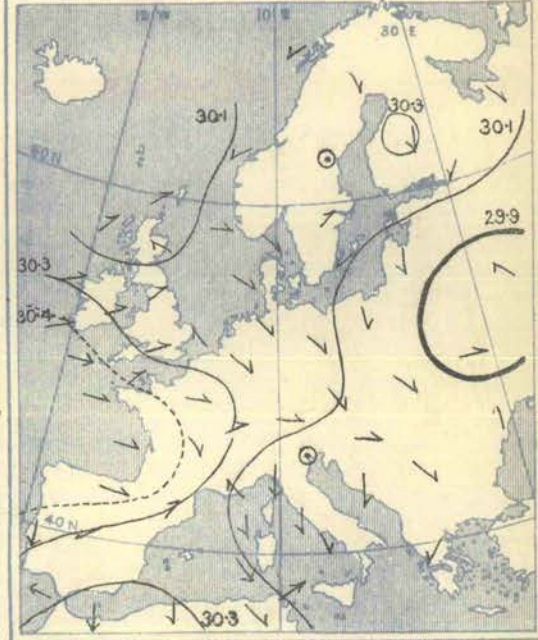
8 a.m.



Wind light from the South-Westward and Westward over the greater part of the United Kingdom, and from the North-Westward over the western and central parts of the Continent; Northerly or North-Easterly in the south of Scandinavia, variable in the north of that peninsula. North-Easterly in Spain and Northerly in Italy, but South-Easterly over the Adriatic. No important change occurring over our Islands during day, but wind backing to the Westward in many parts of France.

Barometer highest 30.5 ins. and upwards in an anticyclone lying over the Bay of Biscay and the north of Spain; 30.2 ins. and upwards in another system over the northern parts of Scandinavia. Lowest, 29.9 ins. and less in a shallow cyclonic area over the south of Russia, 30.0 ins. and less in another system over the extreme south of Italy; 30.1 ins. and less in a third area over the north of Scotland, the west of Norway and the adjacent parts of the Atlantic. Shallow secondary depressions moving eastwards across our Islands during day, and barometer falling in most parts of western Europe.

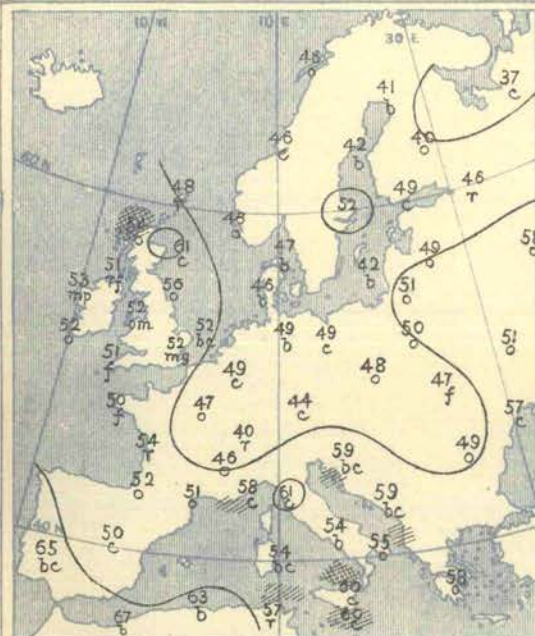
6 p.m.



Friday, 23rd May.

Temperature and Weather.

8 a.m.

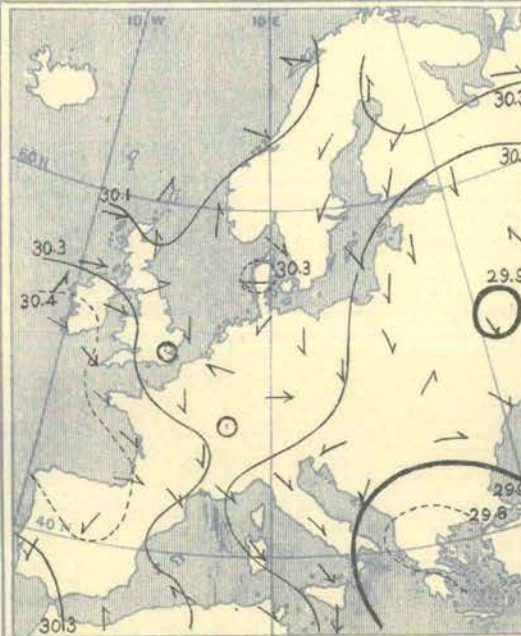


Weather in morning fine and bright over Sweden, Denmark, the south and west of the Spanish Peninsula and in Algeria, cloudy or dull elsewhere. Rain falling at St. Petersburg, Sumburgh Head, and at several French and central European stations, and fog prevailing at the mouth of the English Channel. Rain occurring later in the extreme north and west of our Islands, and in various parts of the Continent; as much as 0.5 in. at Moscow, and 1.1 ins. at Nicolaieff.

Temperature risen in most places. Readings at 8 a.m. highest, 67° at Nemours, 65° at Lisbon, 60° at Palermo and Malta; 62° or 61° in the north-east of Scotland. Lowest, (1) 37° at Archangel, 40° at Kuopio; (2) 40° at Belfort, and 42° at Vienna. Rising during day to 61° at Stockholm, 71° at Shields, 75° at Aberdeen, 79° at Nemours, and 81° at Lisbon. Remaining below 70° at all the French, German, Austrian and Italian stations, and below 60° at a few places in northern Europe.

Barometer and Wind.

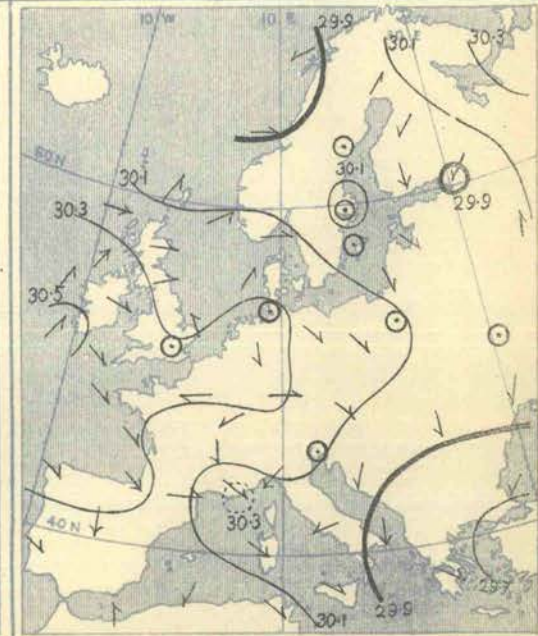
8 a.m.



Wind mainly Westerly over the United Kingdom, but drawing into North on our south-east coasts and into the Southward in the east of Scotland and the west of Norway. North-Westerly over France, and Northerly to Easterly over Spain. Two rather irregular cyclonic circulations shown over southern and central Russia and the Balkan Peninsula. Light in force in almost all localities, but Westerly winds in the Hebrides, and Northerly wind at Brindisi blowing strongly. Very little change later.

Barometer fallen over central Russia, and also over Greece and Italy. Morning readings, highest, above 30.4 ins. in an anticyclone extending from the Atlantic over the south of Ireland, the Bay of Biscay, and the north of Spain, and above 30.3 ins. in north Russia and Lapland. Lowest, 29.8 ins. and less in a shallow disturbance over Turkey, and below 29.9 ins. in a similar system over Little Russia. Turkish depression moving away to Asia Minor by evening, but that over Russia extending Northwards and becoming complex. A separate baric minimum forming to the westward of Corsica.

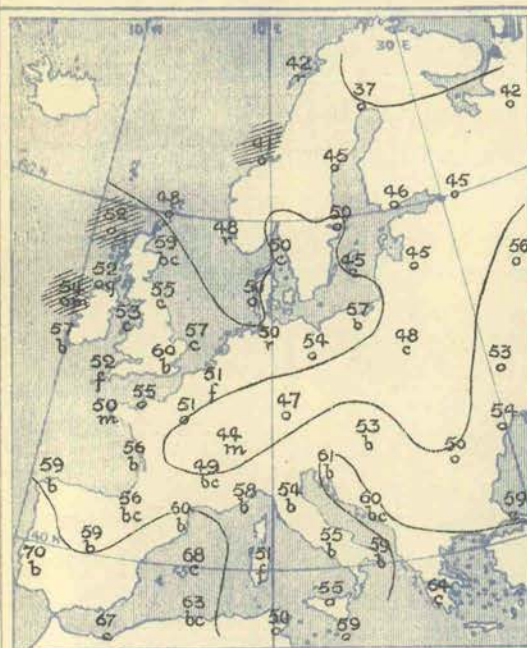
6 p.m.



Saturday, 24th May.

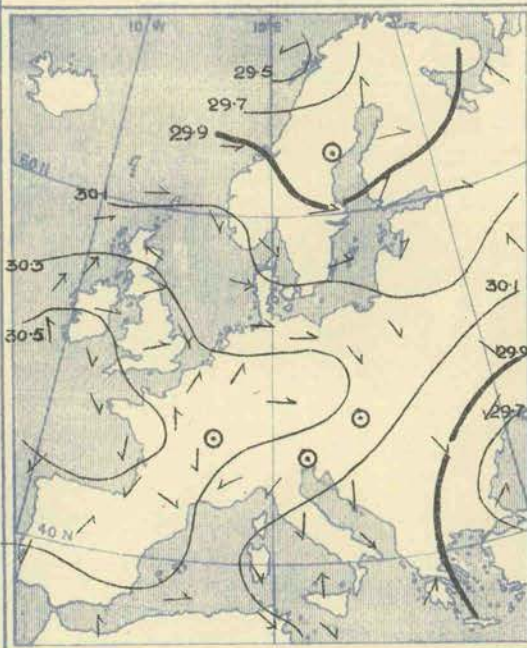
Temperature and Weather.

8 a.m.

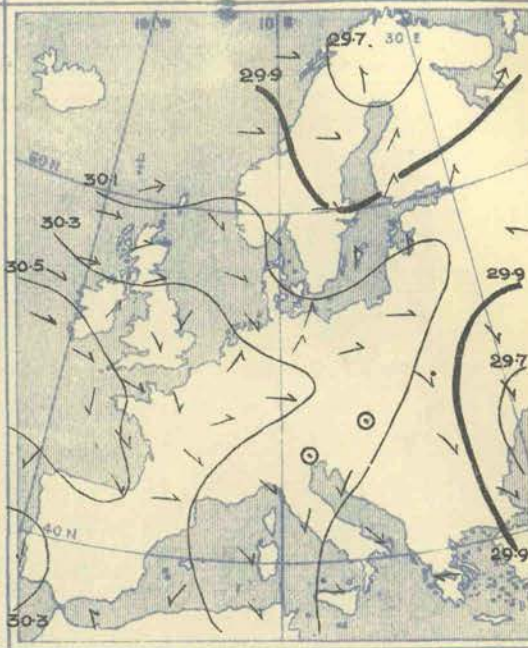


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in the southern countries and at a few of our own stations, cloudy or dull elsewhere, with fog at the mouth of the English Channel and in the north-east of France, and rain over the east of Germany, at Bodo and Kuopio. Rain also falling at La Calle, slight rain later at some of our extreme northern and north-western stations and in several parts of Germany and Austria, and larger amounts over the south of Russia and as some Mediterranean stations, as much as 1.3 ins. at Palermo.

Temperature risen generally, but fallen over the central parts of the Mediterranean. Readings at 8 a.m., ranging from 70° at Lisbon, 68° at Palma, 67° at Nemours, 62° at Patras, 61° at Trieste, and 60° over central England, to 50° at Tunis, Vienna, Prague and Stockholm, 44° at Belfort, 42° at Archangel and Bodo, and 37° at Haparanda. Rising subsequently to 71° in London, 72° at Trieste, 77° at Croisette, 79° at Nemours, and 86° at Lisbon. Not touching 70° in Italy and remaining below 55° in many parts of Germany.

Wind fresh or strong from South-West on our own north-western coasts, light from West or North-West over our Islands generally, and light from North or North-East over France and Spain. Cyclonic over northern and south-eastern Europe, and light or moderate in force in most places, but Westerly wind at Christiansund blowing a gale, and North-Easterly wind in the extreme south of Russia, blowing strongly. Both these currents falling light by evening and wind on our north-western coasts veering to West. No other important change.

Barometer fallen decidedly over northern and south-eastern Europe, risen elsewhere. Readings at 8 a.m. ranging from 30.5 ins. and upwards in an anticyclone extending from the Atlantic over our south-western districts and the north-west of France, to 29.7 ins. and less in a depression over the Black Sea, and to below 29.5 ins. in another system over the north-west of Norway. No great change in the general distribution of pressure during day, but both cyclonic systems moving eastwards.

GENERAL NOTES.

At the commencement of the week barometrical pressure was highest in an anticyclone lying to the westward of the Spanish Peninsula, but high in another system over the extreme north of Russia. A well marked cyclonic disturbance which had previously crossed our Islands was moving in an irregular track over Denmark and the Baltic; and in its rear strong North-Westerly winds and cold showery weather prevailed over western Europe generally. In Italy, Austria, and the south of France, the conditions were also very changeable, owing to a complex depression which had formed in that neighbourhood.

After the 19th the anticyclone off the Spanish and Portuguese coasts, spread northwards over the United Kingdom, while the second high pressure area over northern Europe gradually

disappeared. A temporary improvement in the weather consequently set in over the western countries, but the thermometer remained low for the time of year, especially over Germany and central France. During the latter part of the 21st, the anticyclone receded southwards, and on the following day several small shallow depressions moved eastwards across the United Kingdom, and occasioned rain in all districts. Towards the close of the time the anticyclone again spread northwards, but with light or moderate Westerly breezes, the thermometer in these Islands rose steadily, the maximum readings of the 23rd being above 70° at many of our northern stations. In France and Germany the weather remained very cool for the time of the year, until quite the end of the period, when the thermometer began to rise slowly.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ———— = a heavy gale; ———— = a gale; ———— = a fresh to strong breeze; ———— = a light to moderate breeze; and ○ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; at 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 122.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	39.3	- 1.3	33	- 1	THURCASTON	48.9	+ 7.4	44	+ 6	BOURNEMOUTH	81.5	—	75	—
STRATHPEFFER SPA	28.3	- 11.2	24	- 10	MARGATE	18.5	- 25.8	17	- 24	SOUTHPORT	52.3	—	46	—
EDINBURGH	26.2	- 11.6	23	- 10	BROADSTAIRS	27.1	—	25	—	RHYL	54.0†	—	48†	—
MORPETH	52.5	—	48	—	EASTBOURNE	37.1	- 14.4	34	- 13	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	40.3	—	35	—	BRIGHTON	42.8	- 7.3	39	- 7	ABERDOVEY	63.6†	—	57†	—
YORK	33.0	- 8.5	29	- 8	WORTHING	41.4	—	38	—	TENBY	57.7	+ 6.7	52	+ 5
LOWESTOFT	18.2	—	17	—	BOGNOR	41.9†	—	38†	—	NEWQUAY	48.6	- 1.4	45	- 1
HOLLESLEY BAY	19.6	—	18	—	WATERGATE	24.9	—	31	—	TORQUAY	65.9	+ 14.5	61	+ 13
DUNMOW	25.6	—	23	—	WESTBOURNE	42.1†	- 9.4	39†	- 8	GUERNSEY	66.3†	+ 7.3	62†	+ 7
SHEFFIELD	50.6	—	45	—	VENTNOR HOSPITAL	44.0	- 7.4	40	- 8					
WORKSOP	40.0	+ 1.0	36	+ 1										

† The values at Bognor, Westbourne, Rhyll, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

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ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 22.]
Fourth Series.

WEEK ENDING SATURDAY, MAY 31ST, 1902.

[Price 6d.
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post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean* Amounts are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 128.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	32	52.0	42.1	46.8	3 below	Day-deg. 34	Day-deg. -23	Day-deg. 0	Day-deg. -4	Day-deg. 346	Day-deg. -80	Day-deg. 658	Day-deg. +93
	1. SCOTLAND, EAST	64	36	54.3	43.3	48.5	2 below	46	-22	0	-3	422	-111	727	+111
	2. ENGLAND, N.E.	60	36	58.9	46.1	52.2	1 above	71	+4	0	-2	531	-5	522	+14
	3. ENGLAND, EAST	73	40	65.2	47.5	55.8	3 above	97	+12	0	-1	630	-49	516	-40
	4. MIDLAND COUNTIES	71	38	62.0	46.4	53.7	1 above	82	-4	0	-2	660	-48	523	-42
5. ENGLAND, SOUTH	72	40	62.3	47.9	54.7	2 above	89	-3	0	0	659	-108	358	-55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	67	31	56.0	43.4	49.3	3 below	51	-23	0	-1	524	-59	483	+51
	7. ENGLAND, N.W.	66	39	57.1	47.0	51.8	1 below	69	-11	0	-1	551	-64	421	+7
	8. ENGLAND, S.W.	69	33	59.6	46.7	52.7	1 below	75	-11	0	0	688	-64	324	+6
	9. IRELAND, NORTH	65	34	54.5	44.0	48.9	3 below	48	-28	0	-1	533*	-126	338	-28
	10. IRELAND, SOUTH	66	35	58.8	44.8	51.4	2 below	66	-18	0	0	737	-76	240	-28
-CHANNEL ISLANDS.	65	45	59.6	49.1	54.0	1 below	84	-9	0	0	892	-13	99	-24	

DISTRICTS. (See p. 128.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	16	10ths of in. 10 more	112	+16	21.0	+1.3	25	-13	21	-11	499	+9	28	+1	
	1. SCOTLAND, EAST	4	10	6 more	89	+9	9.7	-1.9	35	-6	30	-5	536	-3	30	0	
	2. ENGLAND, N.E.	3	11	6 more	74	-2	8.1	-0.9	38	-1	33	-1	563	+11	30	+1	
	3. ENGLAND, EAST	3	8	3 more	77	0	8.0	-0.8	53	+3	49	+2	617	-35	32	-2	
	4. MIDLAND COUNTIES	3	7	2 more	71	-2	9.1	-1.1	39	-2	35	-2	537	+8	31	0	
5. ENGLAND, SOUTH	4	6	2 more	69	-2	8.7	-1.7	55	+5	49	+4	625	-50	23	-2		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	15	9 more	100	+16	20.3	+0.7	37	-8	32	-7	538	-21	30	-1	
	7. ENGLAND, N.W.	6	7	2 more	91	+14	11.7	-0.4	40	-3	35	-3	634	+79	36	+5	
	8. ENGLAND, S.W.	4	6	1 more	79	-2	11.7	-3.7	44	-7	39	-6	616	-47	35	-2	
	9. IRELAND, NORTH	7	13	7 more	109	+18	15.0	+2.2	31	-11	27	-9	546	-1	30	0	
	10. IRELAND, SOUTH	5	7	1 more	87	+1	13.9	-2.2	43	-2	38	-2	598	-17	33	-1	
-CHANNEL ISLANDS.	3	8	3 more	83	-1	11.8	-0.7	56	-2	52	-2	681	-89	37	-5		

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was unsettled and rainy throughout the period in the extreme northern and north-western districts, but elsewhere the earlier days of the week were mostly fair and dry. Towards the end of the week, however, unsettled, rainy conditions became general in all parts of the Kingdom, and at many eastern stations sharp thunderstorms were experienced.

Temperature was rather below the mean in Ireland, Scotland, the western half of England and in the Channel Islands, but a little above it in England S., N.E. and E. and the Midland counties. The highest of the maxima occurred at the commencement of the week over Ireland and Scotland, but on the 27th or 31st over England. They ranged from 73° in England E. and 72° in England S. to 65° in Ireland N. and the Channel Islands, to 64° in Scotland E. and to 58° in Scotland N. The lowest of the minima were recorded during the latter half of the week, and varied from 31° in Scotland W. and 32° in Scotland N. to 40° in England S. and E. and to 45° in the Channel Islands.

Rainfall exceeded the mean in all districts. In Scotland, the north-east of England and the north of Ireland the excess was large.

Bright Sunshine was deficient over the Kingdom as a whole, but was slightly in excess in the south and east of England. The percentage of the possible duration ranged from 52 in the Channel Islands, 49 in England S. and E., and 39 in England S.W. to 35 or less in most northern districts, to 27 in Ireland N. and to 21 in Scotland N.

Barometer and Wind. At the commencement of the week pressure was highest over our south-west coasts, and cyclonic disturbances prevailed to the northward of our Islands. This condition became gradually modified by the high pressure area becoming transferred to the south-eastern part of our area, and disturbances from the westward moving directly over the United Kingdom. Towards the end of the week the distribution of pressure again changed—and very suddenly. The barometer rose quickly and became highest over Scandinavia, while a small disturbance appeared over the south-east of England from France, and, travelling eastwards, subsequently filled up over the Bristol Channel. The winds were consequently at first North-Westerly, and then Westerly to South-Westerly, and often fresh and strong in force; by Friday they had shifted to the North-Eastward or Eastward very generally, and on Saturday increased to a gale from that quarter in the north of Ireland.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.														
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N	Sumburgh Head	52	32	40.3	40.3	44.5	- 2.2	25	5	4	0.82	+ 0.39	*	*	*	*
	Stornoway	58	37	53.6	42.4	47.7	- 1.2	40	0	4	1.16	+ 0.61	39.3	- 3.6	33	- 3
	Wick	58	39	53.7	43.3	48.2	- 0.9	43	0	5	0.34	- 0.06	*	*	*	*
	Lairg	53	37	50.0	40.4	44.9	- 5.0	27	4	7	3.31	+ 2.23	*	*	*	*
	Glencarron	57	38	52.8	42.6	47.4	- 3.7	38	0	6	1.48	+ 1.00	20.1	- 10.5	17	- 9
	Fort Augustus	56	39	52.5	43.8	47.9	- 3.6	41	0	7	2.73	+ 1.90	18.1	- 22.3	15	- 19
1. SCOTLAND, E	Fort William	64	37	54.7	43.3	48.7	- 2.4	47	0	5	0.47	+ 0.09	*	*	*	*
	Nairn	61	41	55.9	45.9	50.6	+ 0.4	60	0	3	1.29	+ 0.85	38.0	- 5.6	32	- 5
	Aberdeen	56	36	50.7	40.5	45.3	- 2.8	29	4	5	1.06	+ 0.56	*	*	*	*
	Braemar	64	37	54.7	43.3	48.7	- 2.4	47	0	5	0.47	+ 0.09	*	*	*	*
	Ochertyre	61	41	55.9	45.9	50.6	+ 0.4	60	0	3	1.29	+ 0.85	38.0	- 5.6	32	- 5
	Leith	57	38	52.8	42.6	47.4	- 3.7	38	0	6	1.48	+ 1.00	20.1	- 10.5	17	- 9
2. ENGLAND, N.E.	Marchmont	56	39	52.5	43.8	47.9	- 3.6	41	0	7	2.73	+ 1.90	18.1	- 22.3	15	- 19
	Alnwick Castle	62	36	56.9	44.6	50.4	+ 0.6	59	0	3	1.53	+ 1.07	*	*	*	*
	Durham	61	41	55.7	44.9	50.0	- 1.2	56	0	2	0.60	+ 0.16	39.7	+ 0.5	34	0
	Shields	61	43	57.0	47.3	51.9	+ 1.3	69	0	3	1.12	+ 0.73	*	*	*	*
	Scarborough	66	44	60.2	46.2	52.8	+ 1.4	76	0	3	0.82	+ 0.38	40.6	—	35	—
	Spurn Head	68	46	60.3	48.1	53.8	+ 2.0	83	0	4	1.38	+ 1.03	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	69	39	63.3	45.7	54.0	+ 0.7	84	0	3	0.83	+ 0.40	*	*	*	*
	Hillington	71	42	65.7	47.1	55.8	+ 2.8	97	0	3	0.64	+ 0.20	*	*	*	*
	Yarmouth	69	45	61.9	48.7	54.9	+ 2.8	90	0	3	0.69	+ 0.27	*	*	*	*
	Geldeston	70	41	66.5	47.5	56.4	+ 3.6	101	0	3	0.73	+ 0.33	50.2	+ 0.6	45	+ 1
	Cambridge	73	42	66.9	46.8	56.3	+ 2.1	100	0	3	1.65	+ 1.22	50.2	+ 4.1	45	+ 4
	Felixstowe	72	43	65.9	48.9	56.9	+ 4.9	104	0	3	0.51	—	50.5	—	53	—
4. MIDLAND COUNTIES	Rothamsted	67	40	64.0	46.1	54.5	+ 1.6	88	0	3	0.32	- 0.14	48.2	+ 3.6	43	+ 3
	Bawtry (Hesley Hall)	65	41	61.1	46.9	53.6	+ 0.6	81	0	4	0.78	+ 0.31	*	*	*	*
	Loughborough	71	44	64.1	48.6	55.9	+ 1.9	97	0	3	0.41	- 0.07	*	*	*	*
	Colly Weston (Stamford)	70	41	64.9	46.4	55.1	+ 1.2	92	0	3	0.86	—	*	*	*	*
	Cheadle	63	41	58.2	46.2	51.8	+ 0.4	69	0	4	0.30	- 0.28	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	67	43	61.8	47.4	54.2	+ 1.3	85	0	3	0.84	+ 0.29	37.3	—	33	—
5. ENGLAND, S.	Churchstoke	63	39	58.9	44.5	51.3	- 0.4	65	0	4	1.07	+ 0.57	41.2	- 3.1	36	- 3
	Hereford	69	39	63.1	45.6	53.8	- 0.3	83	0	3	0.73	+ 0.26	*	*	*	*
	Cirencester	66	38	61.9	44.6	52.7	- 0.2	75	0	3	0.71	+ 0.21	43.5	- 2.8	39	- 3
	Oxford	68	43	63.7	47.1	54.9	+ 0.6	90	0	3	0.41	- 0.02	42.4	- 2.6	38	- 2
	London	72	47	68.7	48.6	58.1	+ 2.5	113	0	4	0.43	+ 0.03	49.2	+ 7.5	44	- 7
	Swarraton (Alresford)	68	40	63.9	45.2	54.0	+ 1.5	84	0	4	0.56	+ 0.11	*	*	*	*
6. SCOTLAND, W.	Dungeness	65	46	60.0	49.4	54.4	+ 0.6	87	0	3	0.17	- 0.13	56.1	—	51	—
	Hastings (St. Leonards)	68	47	61.5	49.7	55.3	+ 1.4	93	0	3	0.44	+ 0.07	58.3	+ 5.0	53	+ 5
	Southampton	72	47	65.5	48.6	56.5	+ 0.5	102	0	4	0.50	+ 0.07	46.9	- 2.8	42	- 3
	Portland Bill	58	47	56.1	48.0	51.8	- 2.1	69	0	4	1.17	—	*	*	*	*
	Shaftesbury	65	43	60.5	45.6	52.6	- 0.6	74	0	4	0.82	+ 0.33	*	*	*	*
	Laudale (Loch Sunart)	63	40	54.6	44.3	49.1	- 3.0	50	0	7	3.02	+ 2.14	*	*	*	*
7. ENGLAND, N.W.	Glasgow	57	39	53.1	44.1	48.3	- 3.6	44	0	5	0.54	- 0.05	30.0	- 7.8	26	- 7
	Cally	67	31	61.3	40.3	50.2	- 1.4	65	5	5	1.28	+ 0.61	*	*	*	*
	Douglas (Isle of Man)	59	37	54.9	44.7	49.5	- 2.2	53	0	5	1.32	+ 0.82	43.1	- 8.4	37	- 8
	Newton Reigny	58	39	54.9	44.9	49.6	- 0.9	53	0	5	0.65	—	33.2	—	29	—
	Stonyhurst	60	44	56.2	47.0	51.3	- 1.0	65	0	5	0.58	- 0.08	39.9	- 4.4	35	- 4
	Blackpool	66	44	58.1	47.7	52.6	- 0.3	74	0	6	0.52	+ 0.05	41.5	- 3.7	36	- 4
8. ENGLAND, S.W.	Manchester (Prestwich)	63	43	58.2	46.3	51.9	- 0.4	69	0	6	0.61	+ 0.02	34.9	—	30	—
	Liverpool Obsy. (Bidston)	64	44	58.1	47.9	52.7	- 0.8	75	0	6	0.61	+ 0.18	40.1	—	35	—
	Chester	65	40	59.7	47.3	53.1	- 1.3	78	0	5	0.59	—	*	*	*	*
	Llandudno	60	46	57.0	48.1	52.3	- 1.2	72	0	6	0.81	+ 0.39	44.3	- 1.5	39	- 2
	Holyhead	58	45	54.6	47.0	50.6	- 2.4	60	0	5	1.23	+ 0.80	*	*	*	*
	Llandovery	67	38	61.1	45.9	53.0	- 0.4	77	0	4	0.88	+ 0.25	*	*	*	*
9. IRELAND, N.	Pembroke	58	47	54.4	48.0	51.0	- 1.4	63	0	3	0.36	- 0.08	35.7	- 16.6	32	- 15
	Clifton	66	46	61.4	48.3	54.5	+ 0.6	88	0	4	0.74	+ 0.22	*	*	*	*
	Bath	66	40	61.9	48.6	54.9	+ 0.4	90	0	3	0.58	—	41.5	—	37	—
	Arlington (N. Devon)	60	40	57.0	44.4	50.3	- 1.9	58	0	5	0.96	+ 0.30	*	*	*	*
	Cullompton	69	41	62.6	44.5	53.0	- 1.3	77	0	4	0.69	+ 0.20	41.6	- 4.7	37	- 5
	Falmouth	63	44	59.1	46.5	52.4	- 1.7	73	0	4	0.29	- 0.27	50.7	- 2.8	46	- 3
10. IRELAND, S.	Plymouth	65	44	59.1	47.0	52.7	- 2.5	75	0	4	0.31	- 0.16	48.8	- 1.3	44	- 1
	Malin Head	54	40	51.7	43.6	47.4	- 4.0	38	0	7	1.26	—	*	*	*	*
	Edenfel (Omagh)	58	34	53.4	43.0	47.9	- 3.6	41	0	7	1.24	+ 0.66	*	*	*	*
	Blacksod Point	56	42	53.6	46.7	49.9	- 2.7	55	0	7	0.71	—	*	*	*	*
	Markree Castle	62	37	55.8	42.5	48.8	- 2.6	48	0	7	1.12	+ 0.48	26.4	- 15.1	23	- 13
	Armagh	62	37	55.9	43.4	49.3	- 2.9	51	0	6	1.78	+ 1.28	35.2	- 6.3	31	- 5
CHANNEL ISLANDS	Donaghadee	65	40	56.3	44.6	50.1	- 2.6	57	0	6	1.59	+ 1.09	*	*	*	*
	Dublin	64	42	59.0	46.6	52.4	- 1.6	73	0	5	1.35	+ 0.89	40.0	- 7.5	35	- 7
	Parsonstown	61	37	58.3	43.1	50.2	- 2.9	57	0	5	0.40	- 0.14	41.0	- 0.2	36	0
	Kilkenny	64	38	59.6	43.9	51.3	- 2.0	65	0	4	0.40	- 0.10	*	*	*	*
	Roche's Point	66	41	58.4	45.9	51.8	- 2.4	69	0	5	0.32	- 0.35	*	*	*	*
	Valencia	60	37	56.4	45.4	50.6	- 3.1	60	0	6	0.22	- 0.51	47.7	+ 0.5	43	+ 1
CHANNEL ISLANDS	Killarney	66	38	61.5	44.1	52.3	- 1.0	72	0	4	1.12	+ 0.45	*	*	*	*
	Foynes	61	35	58.3	44.5	51.0	- 2.1	63	0	5	1.01	+ 0.47	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	49	59.1	50.3	54.4	+ 0.2	87	0	2	0.19	- 0.21	56.1	—	51	—
	Jersey	65	45	60.1	47.9	53.6	- 1.7	81	0	4	1.31	+ 0.88	55.5	- 1.7	51	- 1

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

§ The corresponding value in last week's report should read 59.7.

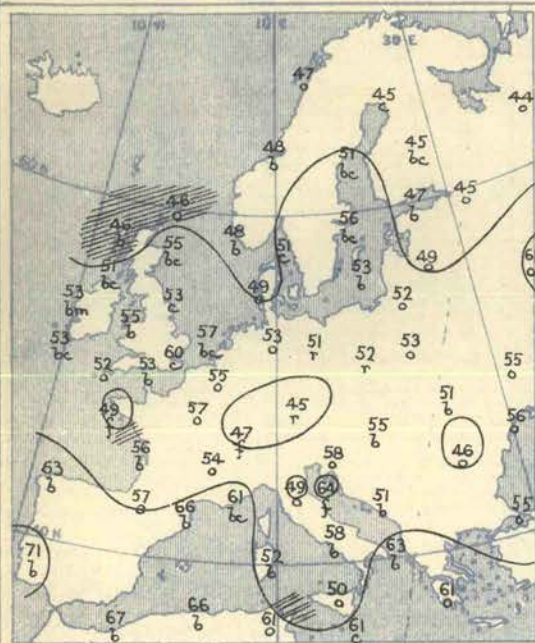
For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 25th May.

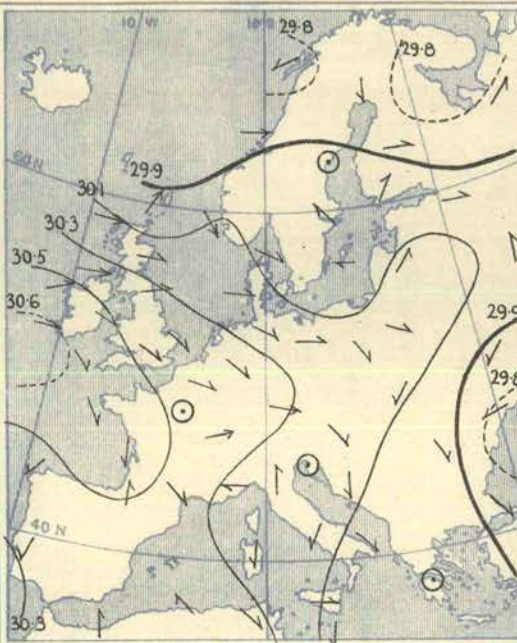
Temperature and Weather.

8 a.m.

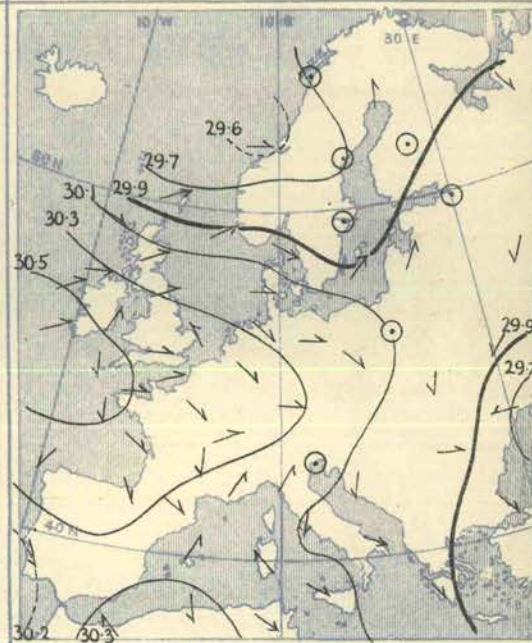


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine in most countries, but dull in most parts of Russia, central, and south-eastern Europe, with rain at several German and Austrian stations. Slight rain later in the extreme north and north-west of our Islands, in some Scandinavian districts, and at Malta, but conditions remaining fine in most regions.

Temperature risen a little generally, but fallen somewhat in most parts of the United Kingdom. Morning readings, highest, 73° at Barcelona, 71° at Lisbon, 67° at Nemours, 63° at Brindisi, 61° in Greece, and 60° in the south-east of England; 61° at Moscow. Lowest, (1) 43° at Uleaborg, 44° at Archangel, 45° at St. Petersburg; (2) 45° at Munich, 47° at Vienna, and 46° at Hermanstadt; (3) 46° in the Shetlands and Hebrides. Maxima during day ranging from 66° in the south of Ireland and 68° in London to above 77° in the extreme south of France, Barcelona, Palma, and at some Algerian stations, and to 88° at Oporto. Thermometer not rising above 52° at Munich, 54° at Hermanstadt, and 57° at Vienna.

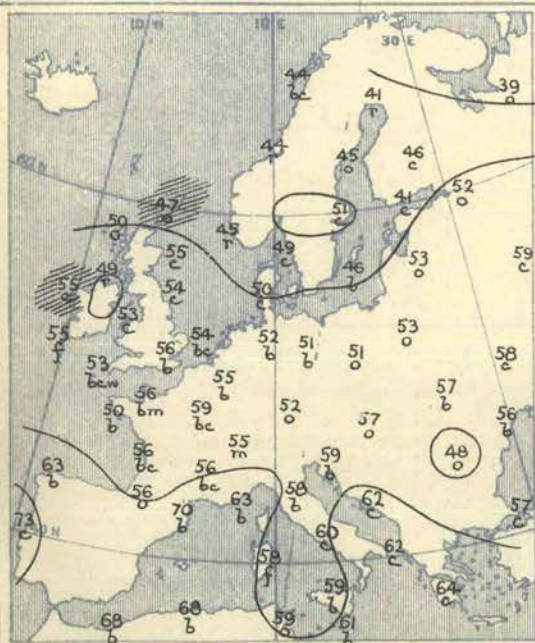
Wind in morning light or moderate from West and North-West over the greater part of our Islands and Germany, variable in France, and light from North-East or East in Spain. Mainly Westerly or South-Westerly and light over northern Europe, but drawing into North-East at Bodø. North-Easterly over southern Russia, and North-Westerly at Hermanstadt and Constantinople. Very little change in direction during day, but Westerly wind increasing considerably in force on our northern coasts and in the south of Scandinavia.

Barometer at 8 a.m. ranging from 30.5 ins. to 30.6 ins. in an anticyclone covering Ireland, the south-western half of England, the western portion of France, and the Bay of Biscay, to 29.8 ins. and less in a disturbance over the Black Sea, and also in the two minima over the extreme north of Europe. Pressure giving way in nearly all regions during day, the change being brisk in the west of Norway.

Monday, 26th May.

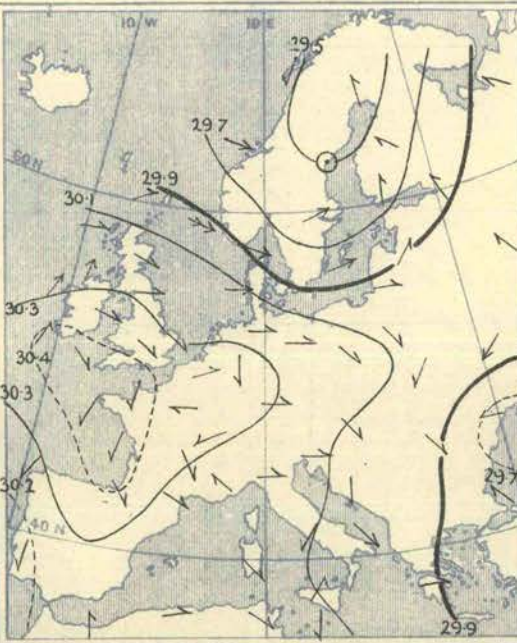
Temperature and Weather.

8 a.m.

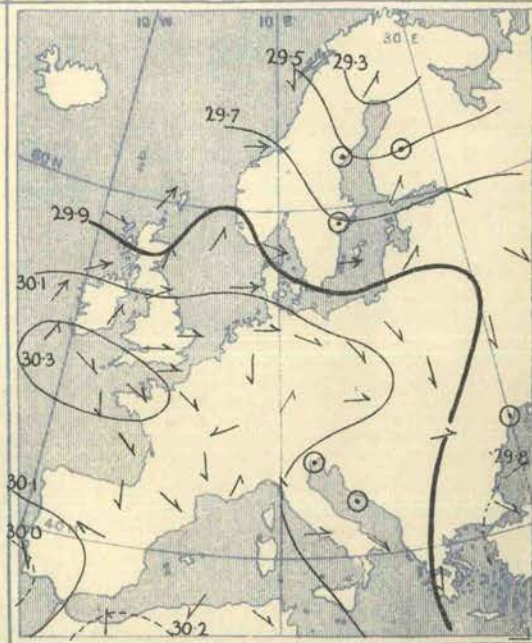


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in most regions, but cloudy or dull at several of our own more western and northern stations and also in Norway. Rain falling at Christiansund and showers in Ireland and North Wales. Remaining fine generally during the ensuing 24 hours, but slight rain experienced in Scotland, and considerable falls at Haparanda, Barcelona, and Odessa.

Temperature at 8 a.m. highest, 78° at Oporto, 70° at Perpignan, 68° on the Algerian coast, and 64° or 63° in Greece; above 55° in the south-east of England, and in many parts of central Europe and Russia. Lowest, 39° at Archangel, 41° at Haparanda, 45° at Christiansund; and 47° at Sumburgh Head. Subsequently rising to between 64° and 69° over central England, 81° at Perpignan, 84° at San Fernando, and to 90° at Madrid. Not touching 60° at several of our own stations and only just exceeding it in some parts of Germany and Austria.

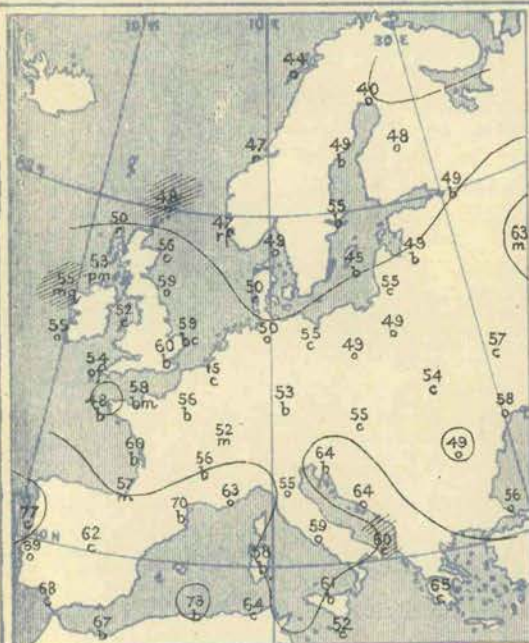
Wind in morning light and anticyclonic over the greater part of our Islands, Germany, France and Spain. Two cyclonic circulations shown elsewhere—one around the north of Scandinavia and the other around the Black Sea. Very little force with the latter movement, but the Westerly wind over the south of Norway, Denmark and the Baltic blowing strongly or with the force of a gale. No great change later, but feeble cyclonic circulations setting in over the Riviera, and the south-west of Spain.

Barometer at 8 a.m., highest, 30.4 ins. to 30.3 ins. in an anticyclone covering Ireland, England, France, western Germany, the north of Spain and the Bay of Biscay; lowest, 29.5 ins. and less, over the north of Scandinavia and below 29.7 ins. in another low pressure system over the Black Sea and the Crimea. Former system increasing in depth and moving Eastwards later, and latter disturbance partially dispersing. Further depressions appearing off our northern coasts, the south-east of France, and south-west of Spain.

Tuesday, 27th May.

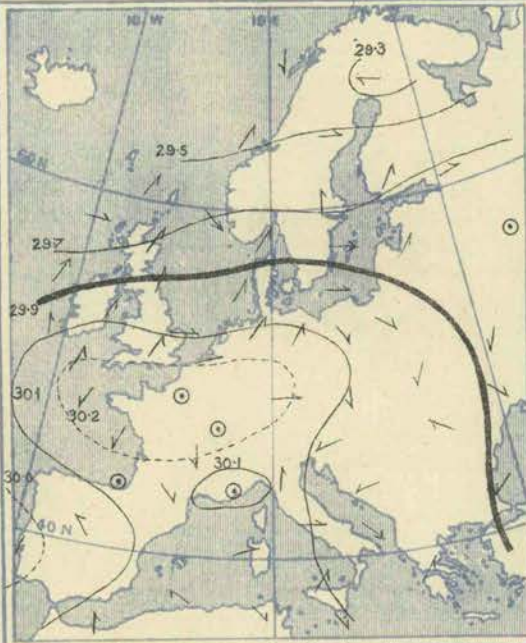
Temperature and Weather.

8 a.m.

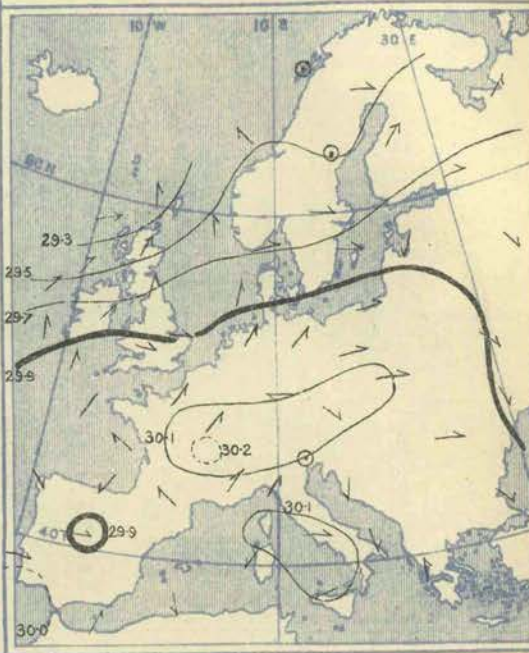


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in most places, but fine and bright in France, Algeria, the south of England and also on the shores of the Gulf of Bothnia and Finland. Foggy at Scilly and rainy at some of our north-western stations, on the eastern shores of the North Sea and at Uleaborg. Rain falling later over Ireland, Scotland, and the west of England, as well as at Spurn Head and in Denmark, but weather dry over Europe as a whole.

Temperature risen in most regions but fallen over Austria-Hungary. Readings at 8 a.m. highest, 77° at Oporto, 73° at Oran and Algiers, 72° at Barcelona, 65° in Greece, and 64° in the Adriatic, 63° at Moscow, and 60° in London. Lowest, 39° at Uleaborg, 45° at Wisby, and 47° at Skudenaeas, 48° and 50° in the Shetlands and Hebrides, and 49° at Warsaw and Breslau. Rising later to 72° in London, at Frankfurt, and Nice, to between 73° and 80° at most southern stations, to 84° at Sfax, and to 90° at Madrid. Not exceeding 55° on the Welsh coast.

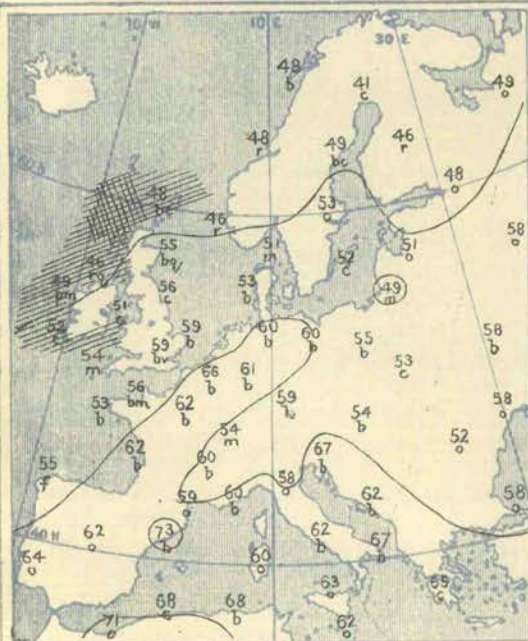
Wind in morning light to fresh from the Westward over the northern half of our area, and drawing into North-East in the south of Russia and into East in several parts of the Mediterranean. Increasing greatly in force from South-West over Ireland, Scotland and the north-west of England later in day, and backing to South and South-East on the west coast of Norway. Wind over southern Europe becoming very variable.

Barometer fallen in nearly all localities, very briskly in the north and north-west of our Islands. Readings in morning ranging from 30.2 ins. in an elongated anticyclone extending from the Bay of Biscay to central Europe, to about 29.25 ins. in a cyclonic disturbance near Haparanda and to below 30.0 ins. over the south-west of the Spanish Peninsula. Pressure decreasing very steadily during day and a large and deep disturbance approaching the extreme north of Scotland; the system near Haparanda dispersing.

Wednesday, 28th May.

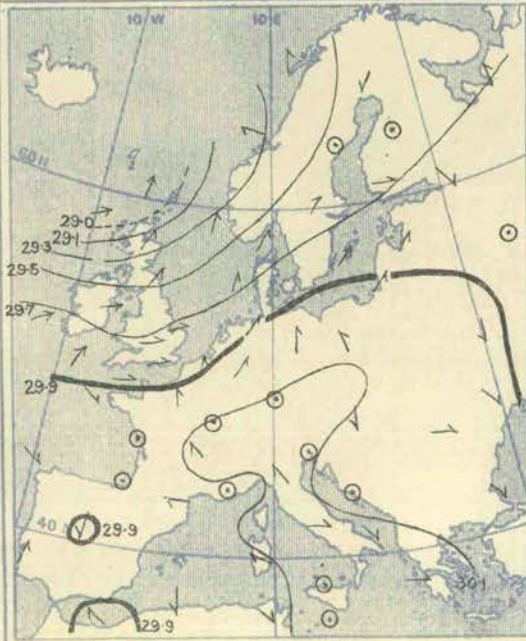
Temperature and Weather.

8 a.m.

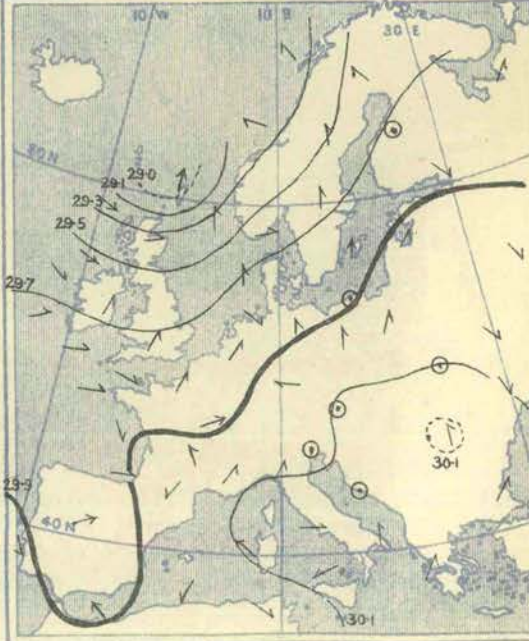


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over France and most parts of southern Europe, cloudy or dull in nearly all other regions, with rain at many of our own stations, in the west of Norway, at Helsingfors, Kuopio, and Kharkov. Rain becoming rather general over the United Kingdom during day as well as in Scandinavia, and thunderstorms occurring in the south-west of France.

Temperature changed irregularly over our area as a whole, but fallen over our Islands and risen over the greater part of France and Germany. Readings at 8 a.m., highest, 73° at Barcelona, 72° at Annale, 71° at Oran; above 60° over Spain and on almost all the shores of the Mediterranean. Lowest, 41° at Haparanda, 42° at Hangö, 44° at Stornoway, and 48° on the west coast of Norway. Increasing during day to 65° at Yarmouth, 69° in London, to between 72° and 80° at the French stations, 75° at Trieste, 79° at Florence, 81° at Tunis, 84° at Madrid, and to 90° at Annale. Remaining below 60° at most of our own stations and below 50° in the Hebrides.

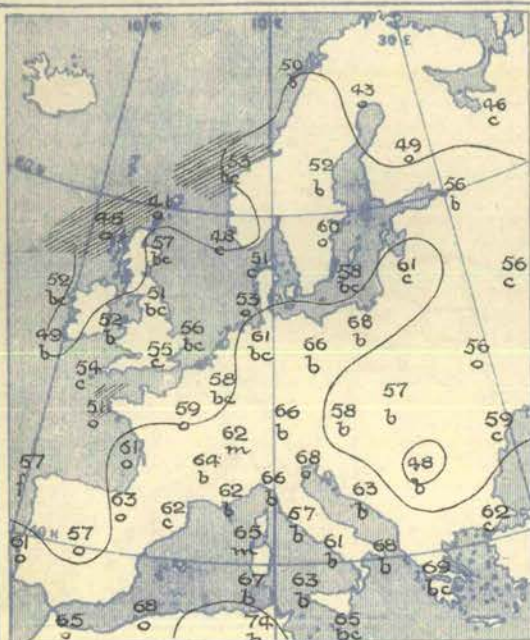
Wind fresh or strong from between West and South West over our Islands, and from the South-Westward and Southward to the eastward of the North Sea. Light and irregularly cyclonic over the central and most southern countries. No material change during day as a whole, but wind increasing to a gale at Wick and becoming more southerly and increasing somewhat in force in Scandinavia.

Barometer fallen quickly in Scotland and to a lesser extent in all regions except Italy, south-eastern Europe and Russia. Readings at 8 a.m. ranging from below 29.0 ins. in a large disturbance to the northward of Scotland, and from 29.8 ins. in two small minima lying respectively over central Spain and western Algeria, to 30.1 ins. and upwards in a very irregularly shaped anticyclone over central Europe, Italy, and the neighbouring parts of the Mediterranean. Northern disturbance travelling north-eastwards later and southern anticyclone moving south-eastwards.

Thursday, 29th May.

Temperature and Weather.

8 a.m.

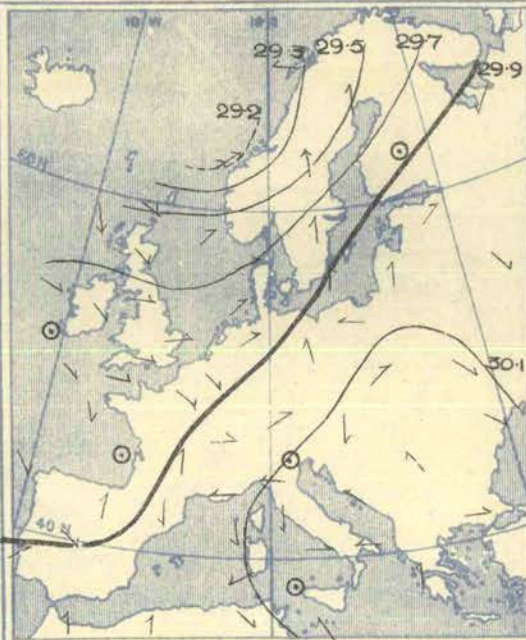


Weather in morning fair or fine in most regions, but unsettled and showery in Scotland and the north of Ireland and dull and rainy in the north of Finland. Rain falling later in nearly all parts of our Islands and considerable falls in the northern departments of France, at Bilbao, at some Italian stations, and over the Netherlands.

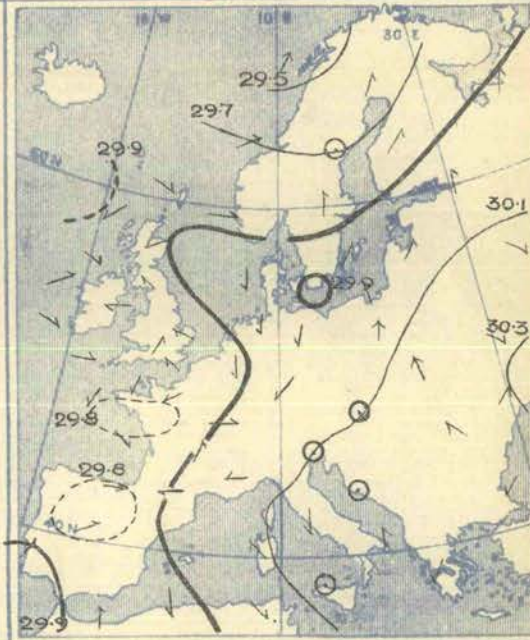
Temperature fallen a few degrees over the United Kingdom, the north of France, Spain, and the adjacent parts of Algeria, risen elsewhere. Readings at 8 a.m., highest, 74° at La Calle, 69° at Patras, 68° at Brindisi, Trieste, Barcelona, Neu-Fahrwasser, 67° at Frankfurt and 61° at Copenhagen and Memel. Lowest, 41° degrees at Sumburgh Head, 43° at Haparanda, 46° at Archangel and Hango, 47° at Newton Reigny, and 49° at some Irish stations. Rising subsequently to 60° and above in some parts of Great Britain, to between 75° and 86° over Germany, to rather lower figures over Austria, France and Italy, to 90° at Bilbao and Tunis.

Barometer and Wind.

8 a.m.



6 p.m.



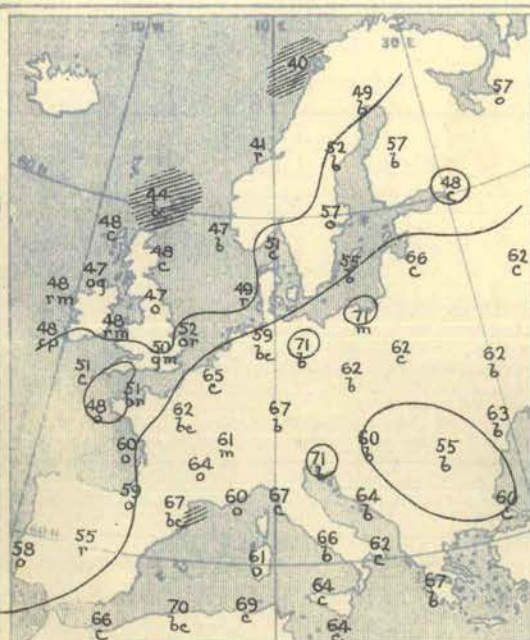
Wind cyclonic over the whole of north-western Europe, and generally light or moderate in force, but North-Westerly wind in the Hebrides blowing freshly and the South-Westerly wind at Christiansund strong to a gale. Light and anticyclonic over the south-eastern portion of Europe. A separate cyclonic movement setting over France later in day and another over the southern part of the Baltic. Wind in our Islands becoming variable on shifting towards East.

Barometer risen generally, but fallen over France, central Europe and the north of Scandinavia. 8 a.m. readings, highest, 30.1 ins. and upwards, in a large anticyclone covering the whole of the more south-eastern parts of Europe. Lowest, 29.2 ins. and less, in a large cyclonic disturbance with its centre off the west of Norway. Depression moving north-eastwards during day, and shallow systems forming over Spain, France, and over the Baltic. Pressure becoming remarkably uniform over our Islands and their vicinity.

Friday, 30th May.

Temperature and Weather.

8 a.m.

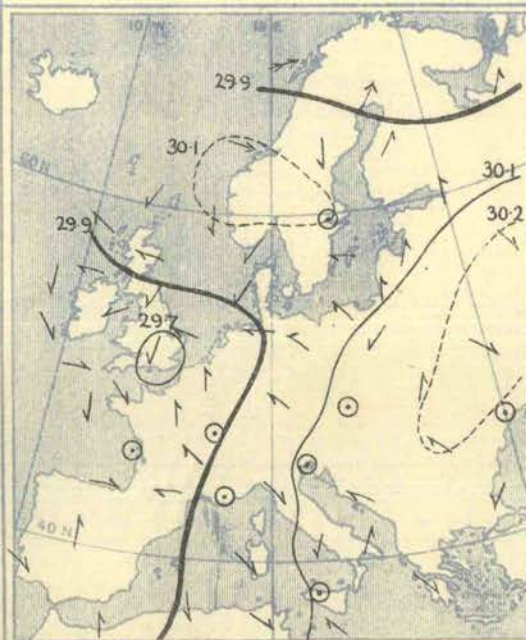


Weather in morning fine in Italy, central Europe and the south of Russia, cloudy or dull in most other regions. Rain falling in different parts of Spain, France, and the United Kingdom, as well as at Faro and Christiansund. Rain falling subsequently over the whole of our Islands—as much as 1.04 ins. at Shields—and thunderstorms with considerable rain in the west and north of France.

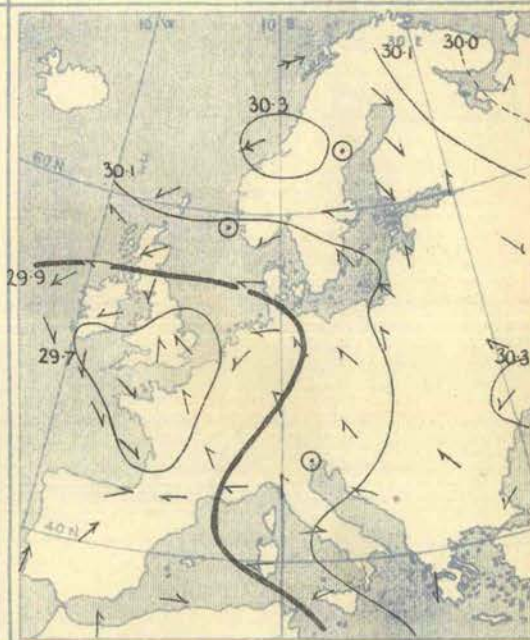
Temperature risen over the major portion of central Europe and Russia, fallen in most other localities. 8 a.m. readings, highest, 71° at Neu-Fahrwasser, Berlin, and Trieste, and 70° at Algiers and Annale, to 67° in Greece. Lowest, 40° at Bodo, 44° at Sumburgh Head, 48° at many of our western and northern stations and at Hango and St. Petersburg, and slightly below 50° in Brittany. Maxima during day ranging from 90° at Annale, 82° at Swinemünde, 80° at Nancy and Carlsruhe and Prague, 77° at Perpignan, and about the same value at many Italian stations, to 72° at Wisby, 65° in London and to less than 50° on some parts of our north-eastern and north-western coasts.

Barometer and Wind.

8 a.m.



6 p.m.



Wind at 8 a.m. showing two anticyclonic movements; one over Scandinavia, the other over south-eastern Europe. Cyclonic and light in force over our Islands and their neighbourhood. Very little modification in the direction later, but Easterly winds increasing in force in Scotland and the north of Ireland.

Barometer risen quickly over the northern countries, fallen over England, France, and Spain. Readings at 8 a.m. ranging from 30.1 ins. in an anticyclone over the south of Scandinavia, and from above 30.2 ins. in another system over the southern portion of Russia, to less than 29.7 ins. in a cyclonic disturbance over the south-east of England. Northern anticyclone moving further northwards later, and disturbance over England travelling slowly westwards.

Saturday, 31st May.

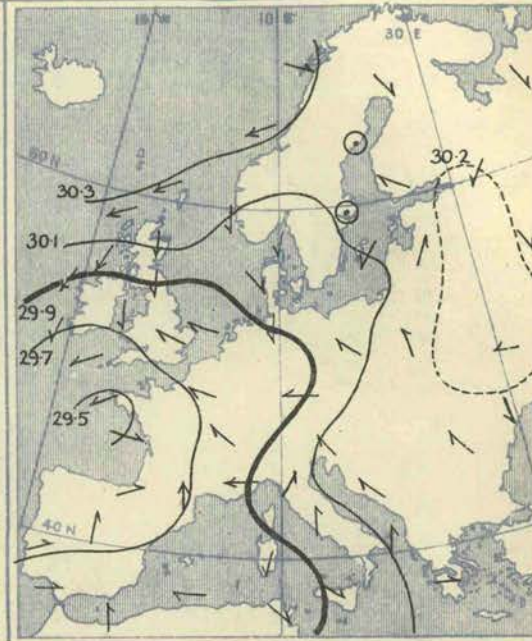
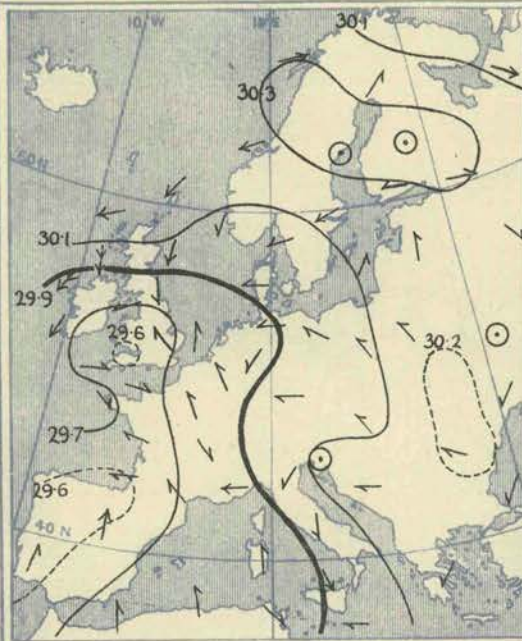
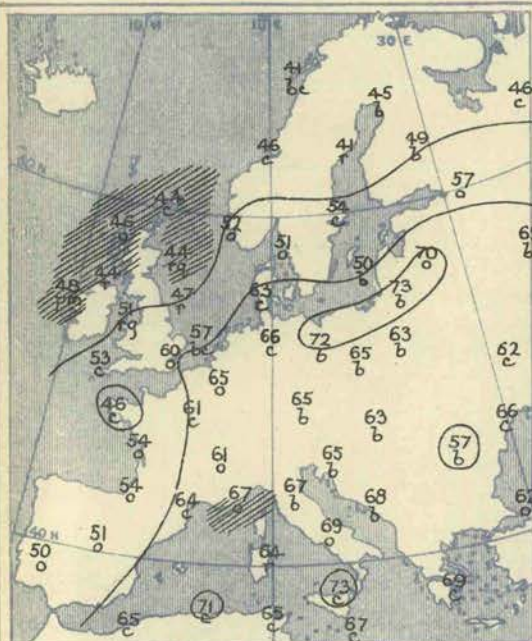
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in the N. of Scandinavia and the central European countries; cloudy or dull elsewhere, with showers in several parts of the British Islands, and rain at Hernösand. Rain falling during the ensuing 24 hours at nearly all our own and the French stations, as well as in various parts of Spain and Italy. Thunderstorms occurring on our east coast and at Bordeaux. Rainfall as much as 0.8 in. in the former and 1.5 ins. in the latter region.

Temperature at 8 a.m. ranging from 73° at Memel, Swinemünde and Palermo, 72° at Berlin and Sfax, 71° at Algiers, and 69° at Athens and Naples. Lowest, 41° at Bodö and Hernösand, 43° at Uleaborg, 44° at Sumburg Head, Malin Head and Aberdeen; below 50° at all the Irish stations and in Brittany and only just touching that value at Lisbon. Rising during day to 71° over the more central parts of England to 77° at Wisby, Fanö, Munich and Marseilles, to between 72° and 80° over Austria-Hungary, to 84° at Groningen and to 86° at Frankfurt. Remaining below 50° on our own east coasts and below 46° at Aberdeen.

Wind in morning cyclonic over our Islands and their vicinity, the North-Easterly current in Ireland being strong to a gale in force; a separate cyclonic movement shown over the Spanish Peninsula the Southerly wind at Madrid being strong. Two cyclonic circulations elsewhere—one over northern, the other over south-eastern Europe. No material change of direction during day, but North-Easterly gale dying down slowly in Ireland, an Easterly wind increasing to a gale at Nice.

Barometer risen in northern and eastern Europe, fallen elsewhere. Morning readings highest, 30.3 ins. and upwards in an anticyclone over the north of Scandinavia and Finland, and above 30.2 ins. in another system extending from the eastern parts of Hungary to the south of Turkey. Lowest, 29.6 ins. and less in a cyclonic disturbance over the Bristol Channel and in another over the western portion of Spain. Latter depression moving quickly northwards during day and former dispersing. Northern anticyclone travelling westwards, and that in the south-east moving north-eastwards to Russia.

GENERAL NOTES.

During the early part of the week an anticyclone of gradually diminishing intensity moved in an east south-easterly direction from the Atlantic across the south-west of our islands and France to Italy and south-eastern Europe. Large, but somewhat shallow, cyclonic areas were in the meantime travelling eastwards across the north of Scandinavia; and over our islands and all the more northern parts of the Continent the prevailing winds were Westerly (south-Westerly to North-Westerly), the weather being mild and changeable, but mostly fair over England.

On the 28th a depression of considerable depth for the time of the year moved in a more southerly track, its centre skirting the extreme north of Scotland, and afterwards moving away in a north-easterly direction. During its progress the wind increased to a gale from the south-westward on many parts of our northern coasts, and rain spread over the whole of the United Kingdom and the neighbouring parts of the Continent.

A decided change now took place. As the disturbance of the 28th passed away, a brisk rise of the barometer occurred in the north, and in a short time a well-marked anticyclone was developed over Scandinavia. Small shallow depressions now began to form over Spain and the Bay of Biscay and to advance north-eastwards, and in nearly all parts of northern and north-western Europe the wind shifted to the Eastward, with dull rainy weather in these islands, and thunderstorms in some parts of England. At the close of the week a small cyclonic area which had appeared over our south-eastern counties on the 30th was moving away in a westerly direction to the Atlantic, but further low-pressure systems were advancing from the southward, so that over western Europe generally the conditions remained very unsettled.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 128.

STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNES	24.7	- 14.0	20	- 12	THURCASTON	40.0	- 1.4	35	- 2	BOURNEMOUTH	60.8	-	55	-
STRATHPEFFER SPA	21.1	- 17.9	18	- 15	MARGATE	53.4	+ 9.5	48	+ 8	SOUTHPORT	44.0	-	38	-
EDINBURGH	27.4	- 9.3	23	- 9	BROADSTAIRS	57.0	-	51	-	RHYL	†	-	†	-
MORPETH	37.0	-	33	-	EASTBOURNE	61.4	+ 9.0	55	+ 9	COLWYN BAY	-	-	-	-
NEWCASTLE-ON-TYNE	34.3	-	30	-	BRIGHTON	48.5	- 2.3	44	- 2	ABERDOVEY	42.2†	-	37†	-
YORK	-	-	-	-	WORTHING	54.4	-	49	-	TENBY	38.4	- 13.5	34	- 13
LOWESTOFT	53.0	-	47	-	BOGNOR	61.3†	-	55†	-	NEWQUAY	-	-	-	-
HOLLESLEY BAY	52.8	-	47	-	WATERGATE	48.7	-	44	-	TORQUAY	48.8	+ 4.0	44	+ 4
DUNMOW	54.1	-	48	-	WESTBOURNE	62.1†	+ 11.3	56†	+ 10	GUERNSEY	57.5†	- 1.5	53†	- 2
SHEFFIELD	52.3	-	29	-	VENTNOR HOSPITAL	49.0	+ 0.5	44	+ 1					
WORKSOP	35.6	- 3.0	32	- 2										

† The values at Bognor, Westbourne, Rhyl, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature.					Rainfall.			Bright Sunshine.			
		(In Degrees Fahrenheit.)											
		Highest observed.	Lowest observed.	Averages for the week.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees)	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending April 26th, 1902.	York	-	-	-	-	-	-	-	-	48.6	+14.3	48	+ 15
" May 3rd "	Rhyl	-	-	-	-	-	-	-	-	50.3	-	58	-
" " 10th "	Rhyl	-	-	-	-	-	-	-	-	64.9	-	61	-
" " 17th "	Churchstoke	57	29	53.5	34.6	43.5	- 5.4	42	21	33.0	- 10.6	30	- 10
" " "	Broadstairs	-	-	-	-	-	-	-	-	33.2	-	31	-

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 23.
Fourth Series.

WEEK ENDING SATURDAY, JUNE 7TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 134.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	40	55.6	44.0	49.4	1 below	Day-deg. 52	Day-deg. -14	Day-deg. 0	Day-deg. -3	Day-deg. 398	Day-deg. -94	Day-deg. 658	Day-deg. +90
	1. SCOTLAND, EAST	69	37	57.6	43.6	50.1	2 below	57	-23	0	-2	479	-134	727	+109
	2. ENGLAND, N.E.	73	41	59.5	46.9	52.8	0 (average)	76	-9	0	-1	610*	-11	522	+13
	3. ENGLAND, EAST	77	45	65.2	51.1	57.7	3 above	110	+11	0	-1	740	-38	516	-41
	4. MIDLAND COUNTIES	77	40	63.4	48.6	55.5	1 above	95	-1	0	-1	755	-49	523	-43
5. ENGLAND, SOUTH	78	43	62.8	50.5	56.2	1 above	99	-4	0	0	758	-112	358	-55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	72	40	60.4	47.4	53.4	0 (average)	80	-4	0	-1	604	-63	483	+50
	7. ENGLAND, N.W.	74	39	61.6	49.4	55.1	1 above	92	0	0	-1	643	-64	421	+6
	8. ENGLAND, S.W.	73	41	61.2	50.2	55.4	0 (average)	94	-3	0	0	783*	-66	324	+6
	9. IRELAND, NORTH	70	42	58.4	47.8	52.7	1 below	75	-12	0	-1	609*	-137	339	-28
	10. IRELAND, SOUTH	68	43	59.5	49.5	54.1	1 below	85	-10	0	0	822	-86	240	-28
	-CHANNEL ISLANDS-	69	49	60.5	52.1	56.0	0 (average)	98	-4	0	0	990	-17	99	-24

DISTRICTS. (See p. 134.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 6	10ths of in. 1 less	117	+17	Ins. 21.6	+1.3	23	-15	19	-12	522	-6	27	-1
	1. SCOTLAND, EAST	6	9	4 more	95	+12	10.5*	-1.6	15	-25	13	-21	551	-29	29	-1
	2. ENGLAND, N.E.	6	10	6 more	80	+2	9.1	-0.3	26	-10	22	-8	589	+2	29	0
	3. ENGLAND, EAST	5	8	4 more	82	+2	8.8	-0.5	39	-12	34	-11	654*	-49	32	-2
	4. MIDLAND COUNTIES	5	6	0 (average)	76	+1	9.7	-1.0	30	-12	26	-11	567	-5	31	0
5. ENGLAND, SOUTH	5	8	4 more	74	0	9.5	-1.3	41	-10	37	-9	666	-60	23	-3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	7	1 more	105	+17	21.0	+0.7	26	-18	23	-15	564	-39	29	-2
	7. ENGLAND, N.W.	4	5	1 less	95	+15	12.2	-0.4	30	-15	26	-13	665*	+64	35	+3
	8. ENGLAND, S.W.	5	7	2 more	84	0	12.4	-3.6	44	-8	39	-7	660	-55	35	-3
	9. IRELAND, NORTH	5	9	3 more	114	+20	15.9	+2.5	29	-12	25	-10	575	-12	30	-1
	10. IRELAND, SOUTH	6	11	5 more	93	+4	15.0	-1.7	31	-14	27	-12	629	-31	33	-1
-CHANNEL ISLANDS-	4	5	1 more	87	0	12.3	-0.6	42	-15	38	-14	723	-104	37	-6	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was extremely changeable, with frequent rain in nearly all parts of the United Kingdom. Thunderstorms, or thunder only, occurred on several occasions, but were, as a rule, confined to the English districts.

Temperature was at first high in the south, but low in the north. Later on a rather decided rise took place in the north, but at the close of the week a general fall occurred, and the readings became low for the time of year over the whole Kingdom. The average for the week differed but little from the mean, a slight excess being shown over England, but a slight deficit in most of the Scotch and Irish districts. The highest temperatures occurred mostly between the 3rd and 5th. In Scotland E., Ireland S., and the Channel Islands, the thermometer did not quite reach 70°, but in nearly all other districts it exceeded that point, and in England E., the Midland Counties, and England S. it rose to 77° or 78°. The lowest readings occurred in Scotland at various times between the 1st and 3rd, but over England and Ireland mostly on the 7th. In the Channel Islands the thermometer did not fall below 49°, but in nearly all other districts it went below 45°, in England N.W. to 39°, and in Scotland E. to 37°.

Rainfall was in excess of the mean over the country generally, especially in the east and south of England, where the total was at least twice as much as the normal amount. In the

Midland Counties, however, the fall was just equal to the mean, while in Scotland N. and England N.W. there was a slight excess.

Bright Sunshine was very deficient in all districts. The percentage of the possible amount ranged from 38 in the Channel Islands and 37 in England S., to 19 in Scotland N. and to only 13 in Scotland E.

Barometer and Wind. During the early part of the week the barometer was high to the northward and north-eastward of our Islands, and lowest in a cyclonic area which moved slowly in a north-westerly direction outside our north-west coasts, the prevailing winds being consequently Easterly, and strong in force in the west. Later on the northern high pressure system travelled south-eastwards across Central Europe, and the cyclonic disturbance moved in a northerly direction outside the Irish coasts, the wind becoming variable in Scotland, but South-Westerly or Westerly over England and Ireland. Towards the close of the week a new depression was developed over the south of Scandinavia, while a shallow secondary disturbance advanced over Scotland from the Atlantic. In the rear of the latter system the wind in our Islands veered to the North-Westward, and freshened considerably on some parts of our north-west coasts.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.														
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N	Sumburgh Head	754	41	51.0	43.7	47.1	- 0.7	36	0	3	0.32	- 0.11	*	*	*	*
	Stornoway	65	41	57.6	44.0	50.3	+ 0.1	58	0	5	0.73	+ 0.17	35.5	- 7.2	29	- 6
	Wick	55	43	50.6	44.6	47.4	- 2.8	38	0	5	0.69	+ 0.29	*	*	*	*
	Laing	71	40	57.9	42.5	49.7	- 1.6	54	0	5	0.45	- 0.67	*	*	*	*
	Glencarron	66	40	56.0	43.5	49.3	- 3.2	51	0	5	0.54	+ 0.05	28.8	- 1.4	24	- 1
	Fort William	68	43	60.3	45.9	52.6	- 0.2	74	0	5	0.87	- 0.20	26.9	- 12.8	22	- 12
1. SCOTLAND, E	Nairn	66	40	55.1	43.3	48.8	- 3.6	48	0	7	0.88	+ 0.48	*	*	*	*
	Aberdeen	66	42	55.1	45.0	49.7	- 2.0	54	0	7	0.87	+ 0.44	8.3	- 35.1	7	- 30
	Braemar	67	37	58.9	41.4	49.5	0.0	55	2	5	0.87	+ 0.36	*	*	*	*
	Ochertyre	69	40	62.0	44.0	52.4	- 0.8	73	0	5	0.96	+ 0.35	*	*	*	*
	Leith	64	44	56.4	45.3	50.5	- 2.9	60	0	6	0.97	+ 0.56	*	*	*	*
	Marchmont	67	39	58.1	42.3	49.7	- 1.5	54	0	5	0.90	+ 0.33	24.3	- 17.1	20	- 15
2. ENGLAND, N.E.	Alnwick Castle	66	41	60.3	44.4	51.8	+ 0.6	69	0	5	1.16	+ 0.71	*	*	*	*
	Durham	63	41	57.7	44.6	50.7	- 2.3	61	0	6	1.04	+ 0.60	26.0	- 13.0	22	- 11
	Shields	63	43	54.7	45.3	49.7	- 2.4	54	0	5	1.14	+ 0.74	*	*	*	*
	Scarborough	65	43	60.5	47.6	53.6	+ 0.6	81	0	6	1.23	+ 0.83	25.9	-	22	-
	Spurn Head	63	48	59.1	50.1	54.3	+ 1.0	86	0	5	0.91	+ 0.56	*	*	*	*
	Fulbeck (Lincolnshire)	73	42	64.9	49.3	56.6	+ 1.7	102	0	7	0.53	+ 0.09	*	*	*	*
3. ENGLAND, E.	Hillington	72	45	65.4	50.2	57.3	+ 2.8	107	0	6	1.20	+ 0.74	34.3	- 11.7	30	- 10
	Yarmouth	68	49	62.3	51.6	56.6	+ 2.9	102	0	4	0.23	- 0.19	*	*	*	*
	Geldeston	71	47	65.6	51.4	58.0	+ 3.6	112	0	4	0.39	- 0.01	36.4	- 12.9	32	- 12
	Cambridge	77	46	67.4	51.0	58.6	+ 2.9	116	0	6	0.58	+ 0.13	33.6	- 12.2	29	- 12
	Felixstowe	76	49	66.7	51.8	58.7	+ 5.0	117	0	5	1.37	-	49.2†	- †	43†	- †
	Rothamsted	73	46	64.0	50.3	56.7	+ 2.3	103	0	7	1.18	+ 0.71	32.6	- 11.7	29	- 10
4. MIDLAND COUNTIES	Harrogate	69	40	60.5	45.9	52.7	- 0.3	75	0	5	0.25	-	32.2	-	28	-
	Bawtry (Hesley Hall)	73	43	64.3	48.9	56.1	+ 1.7	99	0	5	0.31	- 0.16	*	*	*	*
	Loughborough	75	44	64.6	49.4	56.5	+ 1.0	102	0	6	0.30	- 0.18	*	*	*	*
	Colly Weston (Stamford)	75	43	65.0	49.6	56.8	+ 1.8	104	0	6	0.48	-	*	*	*	*
	Cheadle	70	42	61.0	48.1	54.1	+ 1.2	85	0	4	0.37	- 0.25	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	72	44	62.8	49.2	55.5	+ 1.2	95	0	4	1.08	+ 0.52	24.5	-	22	-
5. ENGLAND, S.	Churchstoke	71	45	62.4	47.7	54.5	+ 1.3	88	0	3	0.54	+ 0.04	35.2	- 9.3	31	- 8
	Hereford	72	43	64.2	48.5	55.8	+ 0.2	97	0	5	0.49	+ 0.02	*	*	*	*
	Cirencester	77	40	64.3	48.3	55.7	+ 1.5	96	0	5	0.87	+ 0.37	31.6	- 14.5	28	- 13
	Oxford	73	45	64.4	50.4	56.9	+ 1.2	104	0	5	0.78	+ 0.33	32.9	- 12.3	29	- 11
	London	78	47	67.3	52.0	59.1	+ 2.2	120	0	6	1.10	+ 0.67	28.7†	- 12.9†	25†	- 12†
	Swarraton (Alresford)	72	45	64.0	49.7	56.4	+ 2.5	101	0	6	0.89	+ 0.44	*	*	*	*
6. SCOTLAND, W.	Dungeness	67	49	61.7	52.1	56.6	+ 1.4	102	0	6	0.66	+ 0.36	44.2	-	39	-
	Hastings (St. Leonards)	73	47	62.6	49.8	55.8	+ 0.5	97	0	6	1.42	+ 1.05	43.7	- 9.3	39	- 9
	Southampton	74	48	64.9	51.1	57.5	+ 0.5	109	0	4	0.64	+ 0.20	37.6	- 11.9	33	- 11
	Portland Bill	60	47	56.9	50.6	53.5	- 1.4	81	0	4	0.41	-	*	*	*	*
	Shaftesbury	67	43	61.9	48.2	54.6	+ 0.4	88	0	5	0.58	+ 0.08	*	*	*	*
	Laudale (Loch Sunart)	72	43	62.4	48.0	54.7	+ 1.3	89	0	6	1.00	+ 0.08	*	*	*	*
7. ENGLAND, N.W.	Glasgow	62	43	57.8	46.6	51.8	- 1.4	69	0	3	0.83	+ 0.22	18.5	- 18.3	16	- 16
	Cally	67	40	63.1	44.7	53.3	+ 0.3	79	0	4	0.57	- 0.13	*	*	*	*
	Douglas (Isle of Man)	63	47	58.2	50.2	53.9	+ 0.9	83	0	5	0.56	+ 0.04	33.2	- 18.0	29	- 15
	Newton Reigny	70	39	60.1	44.7	51.9	0.0	69	0	4	0.40	-	29.3	-	25	-
	Stonyhurst	70	42	61.2	49.4	54.9	+ 1.1	90	0	6	0.33	- 0.37	24.8	- 19.9	21	- 18
	Blackpool	72	46	62.5	49.7	55.7	+ 1.3	96	0	2	0.14	- 0.33	30.3	- 14.5	26	- 13
8. ENGLAND, S.W.	Manchester (Prestwich)	71	44	61.8	48.6	54.7	+ 0.9	89	0	5	0.48	- 0.15	22.6	-	20	-
	Liverpool Obsy. (Bidston)	70	46	62.1	51.1	56.2	+ 1.1	99	0	4	0.39	- 0.06	26.1	-	23	-
	Chester	72	45	63.0	50.3	56.2	+ 0.5	99	0	3	0.21	-	*	*	*	*
	Llandudno	74	47	62.7	51.2	56.6	+ 1.5	102	0	4	0.53	+ 0.10	35.1	- 10.8	31	- 9
	Holyhead	71	46	59.4	49.9	54.3	- 0.1	86	0	4	1.15	+ 0.70	*	*	*	*
	Llandoverly	73	43	63.4	50.1	56.3	+ 1.6	100	0	6	1.05	+ 0.41	*	*	*	*
9. IRELAND, N.	Pembroke	60	49	56.9	50.9	53.7	0.0	82	0	5	0.76	+ 0.32	45.3	- 7.7	40	- 7
	Clifton	72	46	63.2	51.0	56.7	+ 1.5	103	0	5	0.56	+ 0.04	*	*	*	*
	Bath	71	44	64.7	50.4	57.1	+ 1.2	106	0	5	0.56	-	37.9	-	34	-
	Arlington (N. Devon)	67	45	59.9	48.1	53.6	0.0	81	0	6	1.29	+ 0.61	*	*	*	*
	Cullompton	67	41	63.4	49.5	56.0	+ 0.3	98	0	5	0.50	- 0.02	41.1	- 5.4	36	- 5
	Falmouth	63	48	59.1	50.5	54.5	- 0.8	85	0	4	0.49	- 0.07	43.0	- 10.9	38	- 10
10. IRELAND, S.	Plymouth	63	48	59.5	51.4	55.2	- 1.4	92	0	5	0.56	+ 0.09	42.4	- 7.8	38	- 7
	Malin Head	70	42	59.6	46.3	52.5	- 0.3	74	0	5	0.52	-	*	*	*	*
	Edenfel (Omagh)	65	44	58.9	47.7	52.9	+ 0.2	76	0	5	0.81	+ 0.19	*	*	*	*
	Blacksod Point	62	46	57.1	50.1	53.4	- 0.5	80	0	6	0.99	-	*	*	*	*
	Markree Castle	65	45	59.9	47.6	53.3	+ 0.5	79	0	6	0.78	+ 0.10	32.1	- 8.3	28	- 7
	Armagh	63	43	57.7	47.3	52.1	- 1.5	71	0	6	1.15	+ 0.62	24.8	- 16.0	21	- 15
CHANNEL ISLANDS	Donaghadee	62	45	57.3	47.7	52.2	- 1.1	71	0	4	0.93	+ 0.43	*	*	*	*
	Dublin	68	47	61.0	49.7	55.0	- 0.5	91	0	6	0.90	+ 0.45	41.7	- 5.0	36	- 5
	Parsonstown	64	44	60.0	48.6	53.9	- 0.5	83	0	6	1.01	+ 0.46	29.4	- 11.1	26	- 10
	Kilkenny	63	45	59.4	49.0	53.8	- 0.8	83	0	5	1.17	+ 0.64	*	*	*	*
	Roche's Point	61	47	57.7	50.1	53.6	- 1.9	81	0	7	0.65	- 0.05	*	*	*	*
	Valencia	62	46	58.7	50.4	54.3	- 0.4	86	0	7	1.50	+ 0.74	22.2	- 24.4	19	- 22
CHANNEL ISLANDS	Killarney	64	43	60.3	49.8	54.7	+ 0.3	89	0	6	1.26	+ 0.59	*	*	*	*
	Foynes	63	46	59.4	48.6	53.6	- 0.9	81	0	4	0.89	+ 0.32	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	50	59.6	52.1	55.6	0.0	95	0	4	0.38	- 0.02	40.3	-	36	-
	Jersey	69	49	61.3	52.0	56.3	- 0.5	100	0	3	0.67	+ 0.23	40.1	- 17.1	36	- 16

Stations marked *fl* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 1st June.

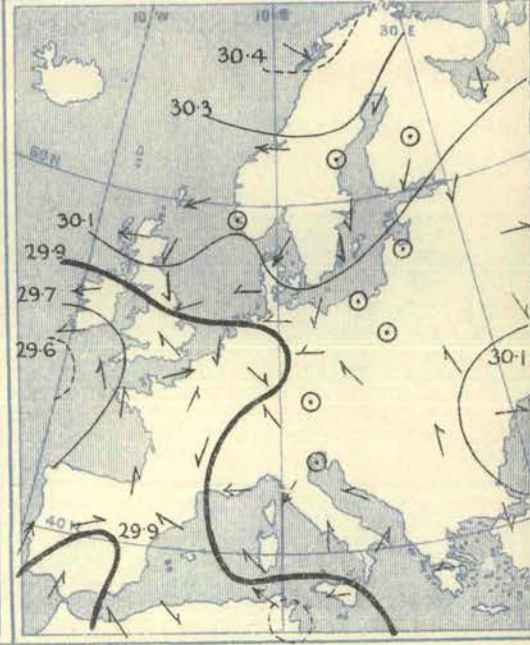
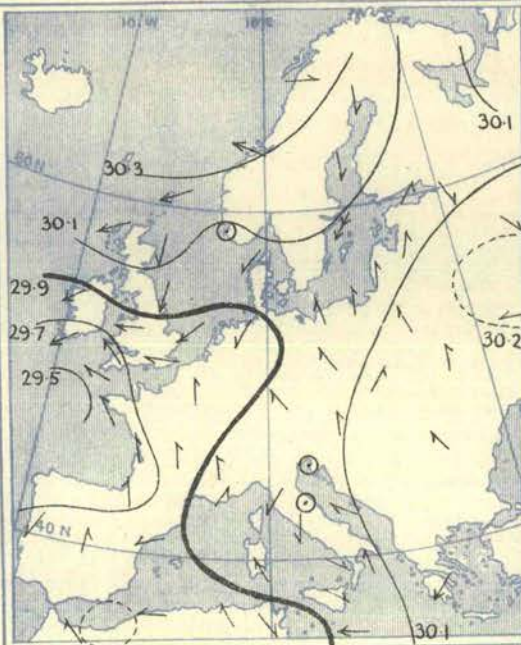
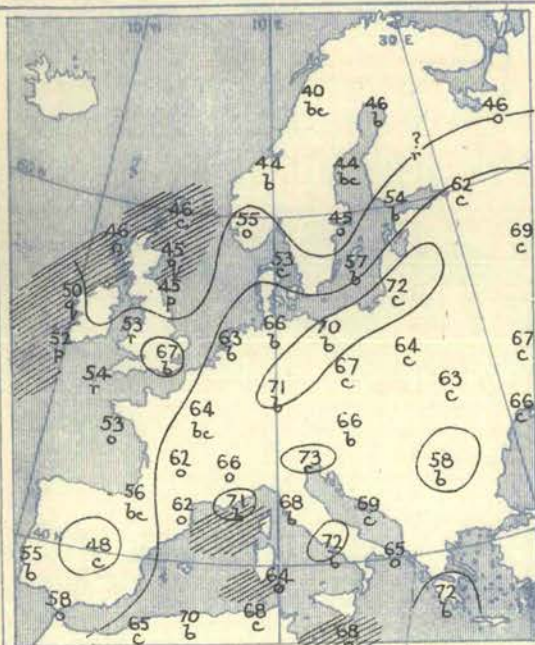
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in many parts of Scandinavia, Germany, and Austria-Hungary, and at some French and Italian stations; cloudy or dull elsewhere, showery in several English and Irish localities. A thunderstorm prevailing at Spurn Head. Rain subsequently becoming very general over our Islands and the western departments of France, in Portugal, and also in the south of Sweden; amount as large as 1.50 ins. at Limoges. Heavy rain (0.87 in.) occurring at Kharkov, accompanied by thunder and lightning.

Temperature changed irregularly. Readings at 8 a.m. ranging from 74° at Brussels, 70° to 72° on the north coast of Germany and at Riga, 70° or 71° over western Germany, 72° at Patras and Naples, and 70° at Algiers, to 69° at Moscow, 67° in London to about 46° in the northern parts of Scotland and Sweden, and to 40° at Bodø. No higher than 48° at Madrid. Rising during day to 75° in London to a few degrees above it at most southern French stations, to 82° at Vienna and Florence, 84° at Swinemünde, 88° at Frankfurt, 90° at Groningen and Palermo, and to 95° at Lagnonot (Inland Algeria).

Wind in morning cyclonic over western Europe and anticyclonic in the extreme north, and also in the east. Cyclonic movement moderate in force as a whole, but the North-Easterly and Easterly winds over the north and west of our Islands fresh or strong. Very little change later, but Easterly wind at Christiansund increasing to a moderate gale, and wind shifting from east to west in the Straits of Dover.

Barometer at 8 a.m. highest, 30.3 ins. and upwards over the west of Norway and to the northward of Scotland, and above 30.2 ins. in another anticyclonic area over southern and central Russia. Lowest, about 29.5 ins. in the centre of a cyclonic disturbance lying off our south-west coasts; 29.8 ins. and less in another minimum over Algeria. Former disturbance moving north-westwards later, and latter apparently moving eastwards to Tunis.

Monday, 2nd June.

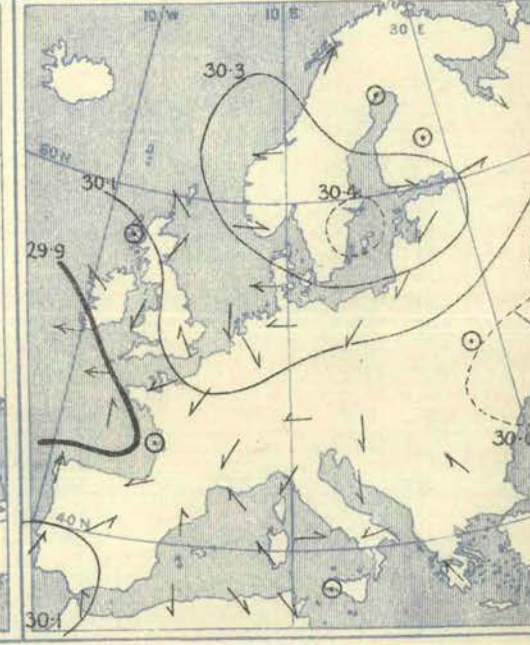
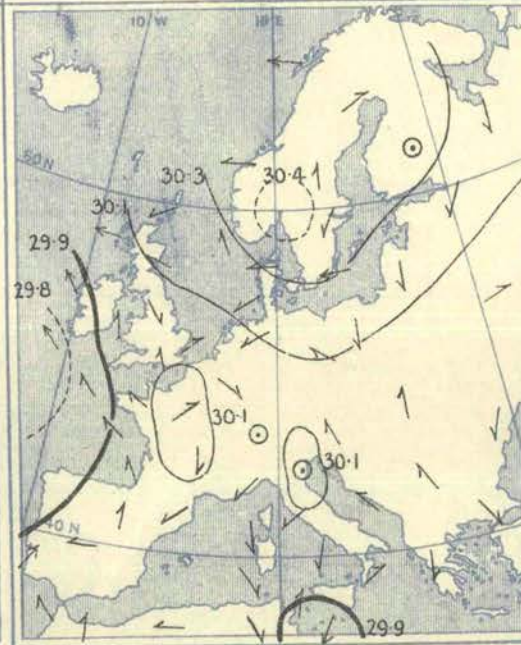
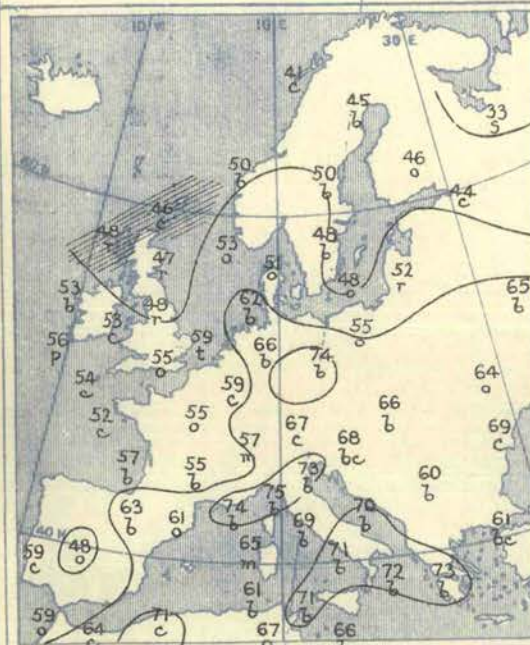
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull at most of our own stations, and also on the southern shores of the Baltic and in Finland and northern Russia. Rainy in several parts of our Islands, with thunderstorms in the east of England; rainy at Riga and snow falling at Archangel. Fine in most other regions. Rain again falling in most parts of our Islands during day, also at Bodø and a few French stations.

Temperature fallen quickly on the north German coast. Highest, at 8 a.m. 75° at Leghorn, 74° at Berlin, 73° at Athens and Trieste, 71° at Palermo and Algiers. Lowest, 33° at Archangel, 41° at Bodø, 44° at St. Petersburg, 46° at Sumburgh Head, 48° at Shields and also at Madrid. Maxima during day as high as 91° at Frankfurt, 90° at Berlin, 88° at Prague and Rome, 84° at Breslau, Gap, and La Calle, 73° in London, and 66° at Wisby. Maxima only a few degrees above 50° on our own north-east coasts.

Wind light and anticyclonic over northern Europe and light and variable over the southern and central countries. South-Easterly to Easterly over the United Kingdom, and fresh at some western stations. Fresh or strong from the southward in Portugal. Easterly wind in Denmark and on the southern shores of the Baltic increasing in force later. No other decided change.

Barometer risen generally, but fallen over central and southern Russia and in Greece. Readings at 8 a.m. highest, 30.4 ins. and upwards in an anticyclone lying over the centre of Scandinavia; above 30.1 ins. in other systems over the more central parts of Europe, and above 30.0 ins. over central Spain. Lowest, (1) 29.8 ins. and less in a depression off our south-west coasts; (2) in a similar system over the central regions of the Mediterranean. No great change in the general distribution of pressure during day, but central anticyclonic systems and also the Mediterranean disturbance dispersing.

Tuesday, 3rd June.

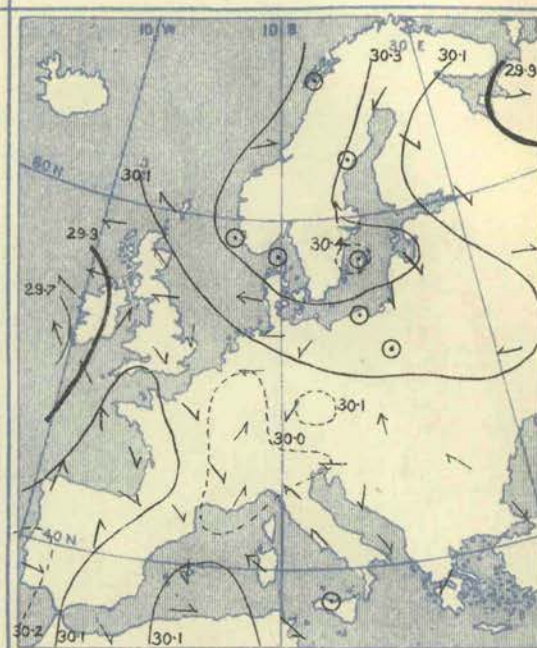
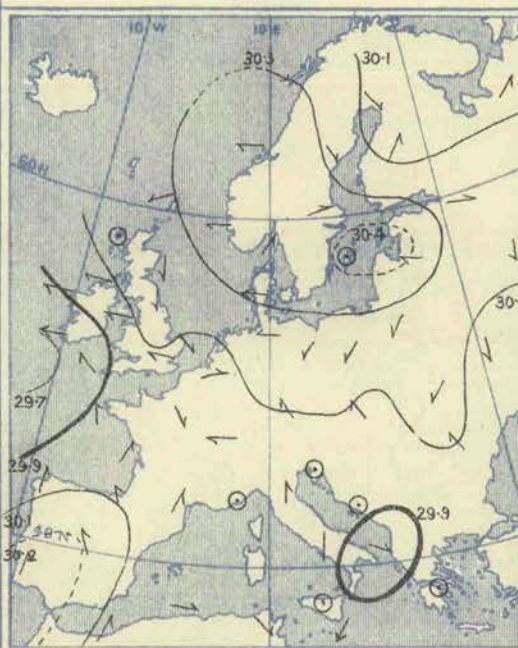
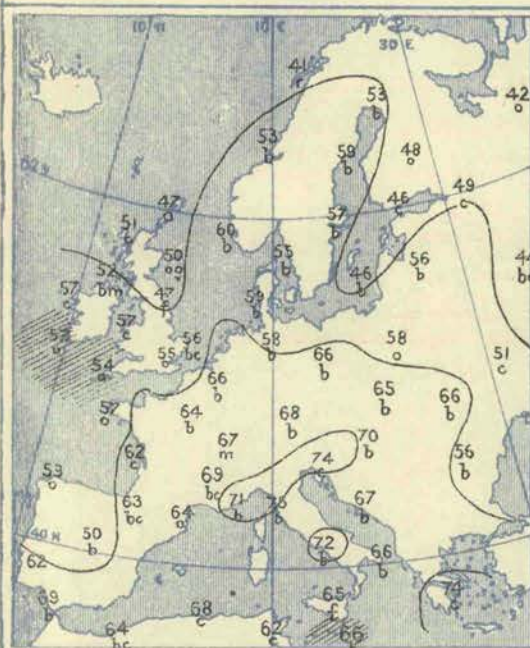
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in most parts of northern and central Europe, and at several of the Mediterranean stations and Madrid; very changeable and unsettled over the British Islands, France, and the Mediterranean stations. Much rain later in the north and east of France (1.4 ins. in places), and smaller quantities in several parts of the United Kingdom, very slight at Jersey; thunderstorm in several parts of the British Islands.

Temperature changed little and fitfully. Morning readings irregularly distributed, and ranging from 75° at Lehigh, 72° at Naples, and 70° at Frankfurt, and 72° at Prague and Münster, to between 60° and 55° over many parts of the British Islands and north Germany, 45° at Wick, 41° at Bodo. Rising later to 97° at Biskra, and between 85° and 80° in many parts of Germany, to between 70° and 78° over England, and 72° in Sweden.

Wind South-Westerly and variable in France, Easterly and South-Easterly over the United Kingdom, Northerly on our north-east coasts, North-Westerly to Westerly over northern Europe, North-Easterly over Germany, Southerly over Spain, very variable elsewhere. Becoming Southerly later over our western districts and freshening; exceedingly variable and light elsewhere. Slight cyclonic circulations appearing in many places.

Barometer in morning highest, 30.4 ins. to 30.2 ins. in a large anticyclone covering nearly the whole of Scandinavia, Denmark, Holstein, and the North Sea, and 30.2 ins. to 30.0 ins. over the Spanish Peninsula. Lowest, 29.8 ins. and less at Valencia and off our south-western coasts, and below 30.1 ins. all over France, Austria, the Black Sea, and south of Italy. Depression off the south-west of Ireland growing deeper later, spreading, and moving northwards; not much change elsewhere.

Wednesday, 4th June.

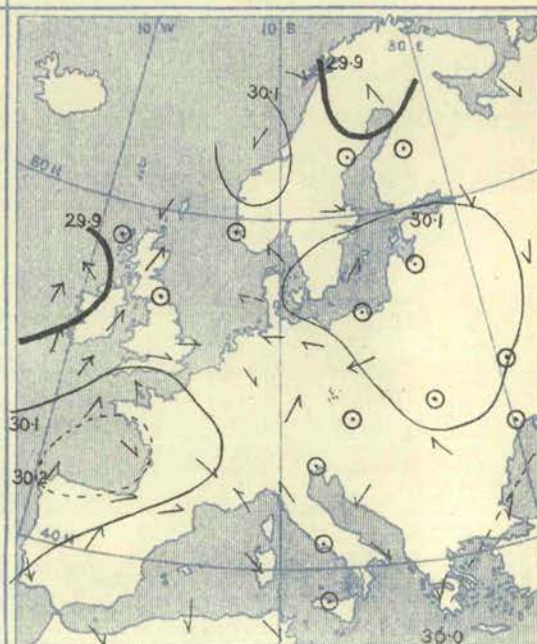
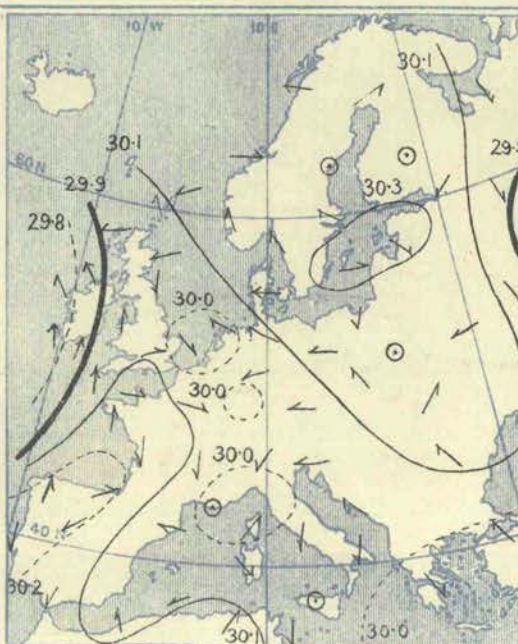
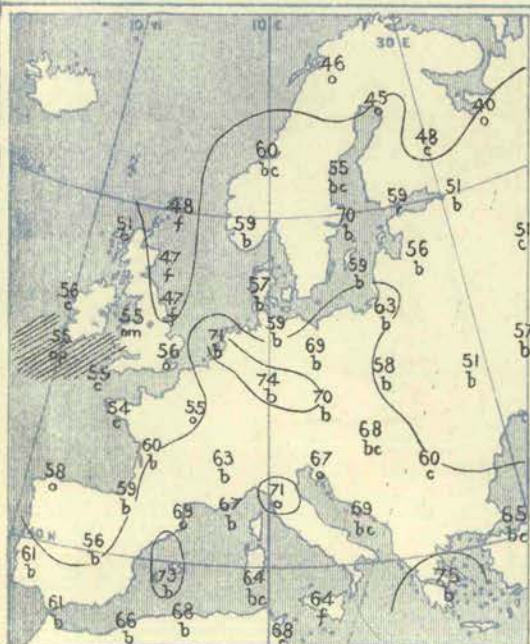
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over central and south-western Europe, rainy in the north and at Marseilles, thunder at Cuxhaven and Spurn Head; very changeable and unsettled over the British Islands as a whole, with rain in the far west. Rain later in several parts of our Islands, and thunder in places; much heavier rains in the south of France and south Germany, and general condition not at all settled.

Temperature fallen over central Europe. Morning readings ranging from 75° at Athens and 68° at Algiers, and 71° in parts of Holland, to 40° at Archangel, 45° at Haparanda, 48° at Samburg Head, 47° at Shields. Maxima over England later varying from 78° to 70°, touching 86° at the Helder; not so high elsewhere.

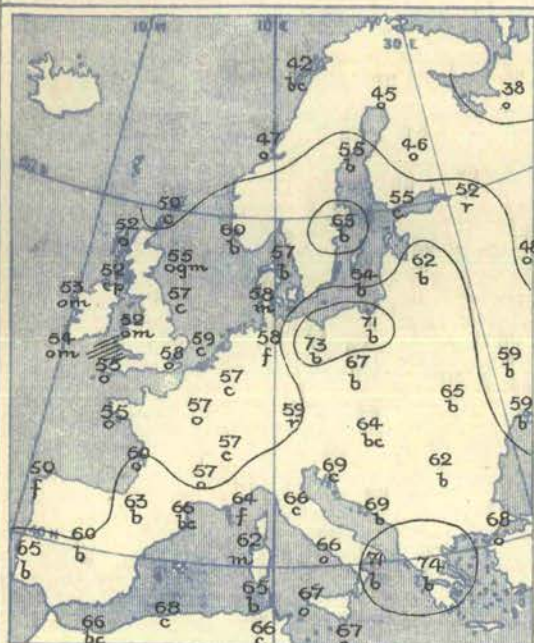
Wind exceedingly variable over the Continent and Great Britain, and light in force; Southerly to South-Easterly at our western stations, and blowing strongly at Malin Head. The South-Easterly to Southerly winds in the west becoming more general later, and light South-Westerly breezes setting in all over England. Variable airs continuing over the Continent.

Barometer highest, 30.3 ins. and more over Gothland and the Gulf of Riga, and exceeding 30.2 ins. over the north-west of Spain. Lowest, below 29.9 ins. at Moscow, and below 29.8 ins. in the west of Ireland; below 30.1 ins. in a "trough" lying over the east and south of France and west and south of Germany, with two minima below 30.0 ins.: one between England and Holland, the other over the Riviera. Not very much change later.

Thursday, 5th June.

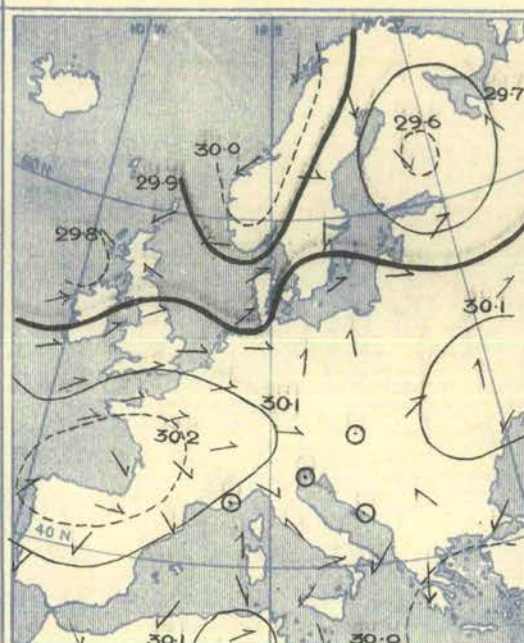
Temperature and Weather.

8 a.m.

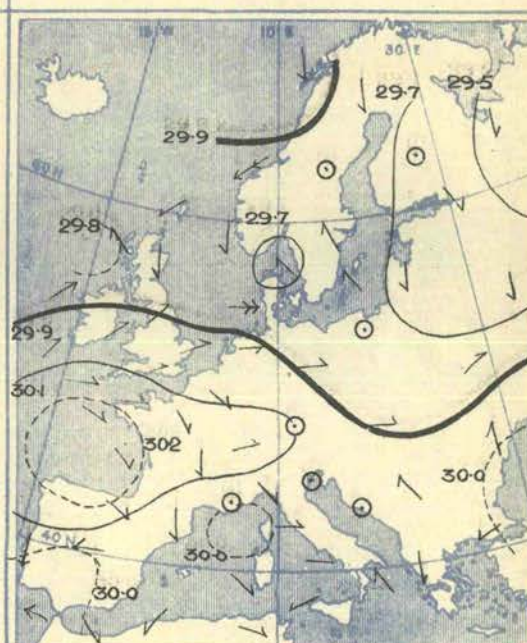


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western and southern Europe as a whole, with mist on several parts of our own coasts, rain at Wick and Parsonstown, and passing showers at Malin Head; fine over the Spanish Peninsula, but foggy in the extreme south of France. Fine in most of the northern and eastern countries, but dull over northern and central Russia, with rain at St. Petersburg. Sky clearing later at several of the English stations, but rain falling in all the more western and northern parts of the United Kingdom, as well as in Germany and Austria; a large quantity (1.8 ins.) reported at Florence.

Temperature changed very irregularly. Morning readings highest, (1) 74° at Barcelona and Patras, and 71° at Athens and Brindisi; (2) 73° at Berlin and 71° at Neufahrwasser; above 65° in many parts of central and southern Europe. Lowest, 38° at Archangel, 41° at Uleaborg and 42° at Bodo; lowest in our Islands, 49° at Wick. Rising during day to 65° or slightly above it in many parts of Great Britain; exceeding 80° at many of the Continental stations.

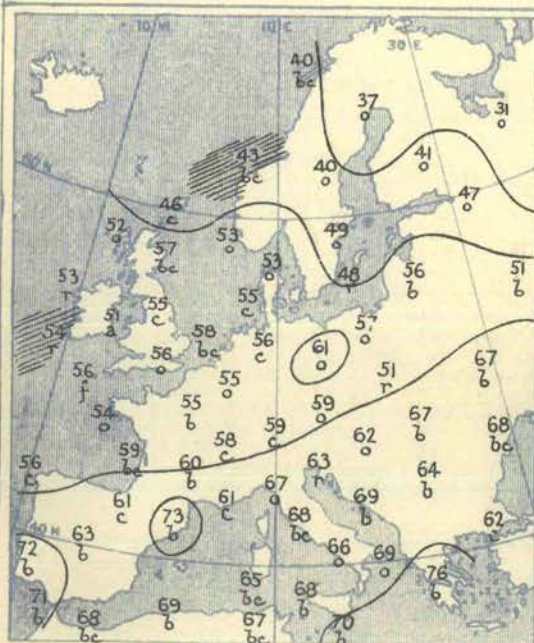
Wind light to fresh from the South-Westward or Westward over Ireland, England, and the neighbouring parts of the Continent, but variable in Scotland, and Easterly or North-Easterly in the west of Norway. Light from the North-Westward over the southern parts of France, and from the North-Eastward in Spain, but variable in Italy and Austria, and Southerly in Germany. Northerly or North-Westerly in Sweden and Finland. No decided change occurring during day.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying over France and the Bay of Biscay; 30.0 ins. and upwards in two other systems—one lying over the west of Norway and the adjacent parts of the Atlantic, and the other over the south of Russia. Lowest, 29.6 ins. and less in a cyclonic area over Finland; 29.3 ins. and less in another disturbance off the west of Scotland. Cyclonic system over Finland subsequently moving eastwards, but new disturbance forming over the south of Sweden and the north of Denmark.

Friday, 6th June.

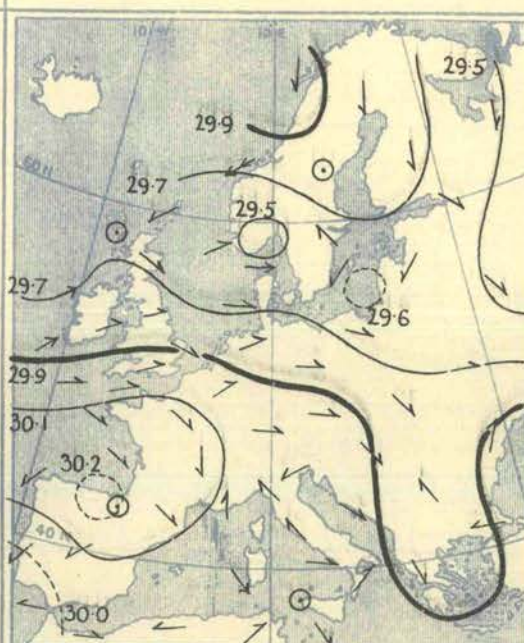
Temperature and Weather.

8 a.m.

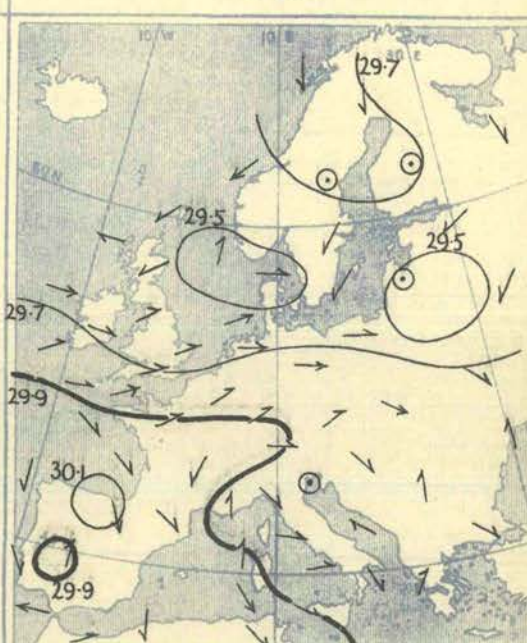


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair at most of the Continental stations and in Scotland, but rainy in one or two localities; clear and bright over the southern half of Russia; dull and rainy over Ireland and England, and not at all settled anywhere over north-western Europe. Rain later in all parts of our Islands, the Netherlands, and north of France, also over the countries bordering on the Baltic, and conditions becoming very unsettled generally.

Temperature fallen fast over the Baltic and north Germany, slightly over England and France. Morning readings highest, 70° at Patras, 73° at Alicante, 70° at Malta and Barcelona, 67° at Haparanda, 40° at Bodo and Hernösand, 46° at Sumburgh Head. Touching 64° later at Leith, and 60° or more in several parts of Great Britain, 70° at Brussels and Frankfurt, 72° at Nice, 86° at Lisbon and Biskra.

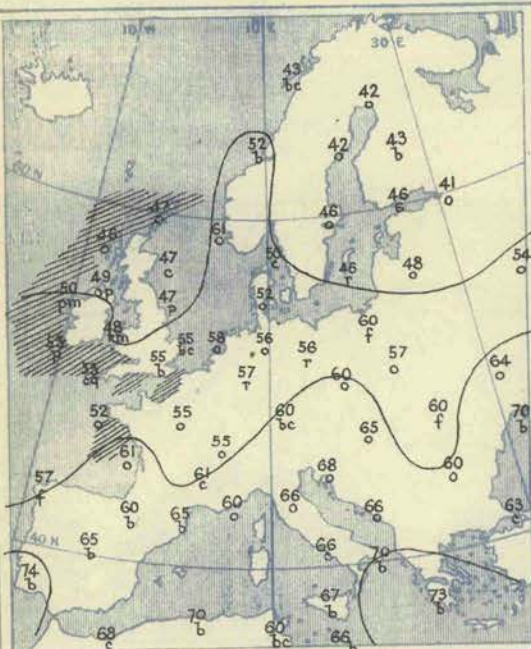
Wind light and variable over the southern and eastern parts of Europe, Northerly to Easterly and stronger over Scandinavia and the north of Scotland; South-Westerly, moderate to strong, over Ireland, England, and the English Channel. A cyclonic circulation over the south of Scandinavia, Denmark, and the North Sea, and another approaching our own north-western coasts from the Westward. The latter system moving Eastwards quickly later; wind veering to West over England.

Barometer in morning highest, 30.2 ins. to 30.0 ins. over the Bay of Biscay and France, and 29.9 ins. to 29.8 ins. over western Lapland and the north of Norway. Lowest, 29.45 to 29.60 ins. in complex depressions over the southern half of Scandinavia, 29.7 ins. and less in a new system approaching the north-west of the British Islands. All systems moving eastwards later; barometer falling fast over England.

Saturday, 7th June.

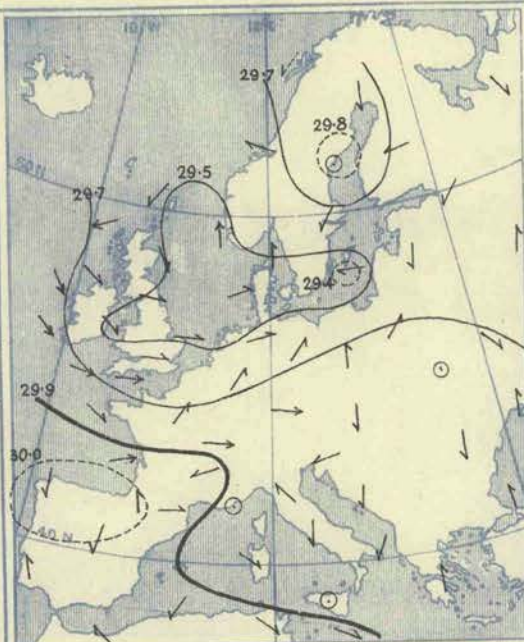
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Spain, the south-east of Russia, and northern Europe. Unsettled over the Baltic and north Germany, and very so over the British Islands and their neighbourhood, with rain in many places. Much rain later over the British Islands, France, Germany, and some in parts of Russia; thunderstorms over England. Northern Europe remaining comparatively dry.

Temperature fallen decidedly over the British Islands, risen over eastern Europe. Morning readings highest, 73° to 70° at a few of the Mediterranean stations, and 60° and more in south Germany. Lowest, 42° to 43° in many parts of northern Europe, 45° at Wick and Leith, 47° at Shields and Liverpool, 49° at Malin Head. Touching 60° later at Dungeness, but in no other part of our Islands; 61° at Paris, 64° at Berlin, 72° at Nice, 77° at Trieste, 79° at Cagliari, 88° at Biskra, 86° at Oporto.

Wind Northerly, but variable, over the greater part of northern Europe. Northerly to North Easterly over Scotland, Northerly in Ireland, North-Westerly to South-Westerly over England, Westerly over France, South-Westerly over Germany. Very variable over southern Europe. Becoming Northerly to North-Westerly later all over our Islands, and West North-Westerly strong over the Bay of Biscay, South-Westerly light over Germany. Little change elsewhere.

Barometer highest, 30.0 ins. and more to 29.9 ins. over Spain and the south-west of France, and 29.8 ins. and more to 29.7 ins. over the northern parts of Scandinavia. Lowest, 29.5 ins. and less in a depression of irregular form, with several secondaries, covering the North Sea, the north of England, and the Baltic. Gradients steepest over the northern and western parts of the British Islands, the south of Sweden, and over France. The depression moving south-eastwards later, and barometer beginning to rise fast at our western stations.

GENERAL NOTES.

At the commencement of the week a large anticyclone advanced over northern Europe from the Atlantic, while a well defined low-pressure system, which had previously come up from Spain, moved in a north-westerly direction outside our extreme south-west coasts. The prevailing winds were therefore Southerly over France, but Easterly or North-Easterly over our Islands and the northern parts of the Continent, the weather being in an unsettled state over western Europe generally, and very cool in Scotland.

After the 3rd the northern anticyclone passed south-eastwards across Russia and gradually dispersed, while the cyclonic system off our south-west coasts moved northwards, the wind shifting to the southward or South-Westward and eventually to the Westward over

Ireland and England, and becoming variable in Scotland. In the rear of the low-pressure area a new anticyclone spread North-Eastwards over the Bay of Biscay, France, and the south of our Islands, and caused a temporary improvement in the weather in these regions.

On the 5th a rather well-marked cyclonic area was developed over the south of Scandinavia, the system afterwards spreading Westwards over the northern part of the North Sea. Towards the close of the week a small secondary disturbance advanced over Scotland from the Atlantic, and in its rear the wind in our Islands veered to the North-Westward, with cold, showery weather.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 134.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	13.3	- 23.7	11	- 19	THURCASTON	26.7	- 14.3	23	- 13	BOURNEMOUTH	52.7	-	47	-
STRATHPEFFER SPA	10.6	- 27.7	9	- 23	MARGATE	35.4	- 8.5	31	- 9	SOUTHPORT	32.6	-	28	-
EDINBURGH	13.4	- 22.3	11	- 20	BROADSTAIRS	42.8	-	38	-	RHYL	↑	-	↑	-
MORPETH	25.6	-	22	-	EASTBOURNE	39.1	- 12.1	35	- 11	COLWYN BAY	-	-	-	-
NEWCASTLE-ON-TYNE	16.5	-	14	-	BRIGHTON	41.4	- 9.9	37	- 9	ABERDOVEY	35.2†	-	31†	-
YORK	34.4	- 6.0	30	- 5	WORTHING	44.7	-	40	-	TENBY	48.2	- 5.0	42	- 5
LOWESTOFT	39.3	-	34	-	BOGNOR	46.8†	-	41†	-	NEWQUAY	40.0	- 11.7	36	- 11
HOLLESLEY BAY	44.0	-	39	-	WATERGATE	36.9	-	33	-	TORQUAY	50.8	- 3.0	45	- 3
DUNMOW	40.8	-	36	-	WESTBOURNE	48.1†	- 2.2	43†	- 2	GUERNSEY	46.1†	- 12.9	42†	- 12
SHEFFIELD	24.9	-	22	-	VENTNOR HOSPITAL	33.7	- 14.0	30	- 13					
WORKSOP	27.6	- 10.4	24	- 9										

† The values at Bognor, Westbourne, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

REPORTS received too late for insertion in their proper place.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)						Rainfall.			Bright Sunshine.				
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees)	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
Week ending May 17th, 1902.	Rhyl	—	—	—	—	—	—	—	—	—	39.1	—	36	—	
" " 17th, "	Tenby	—	—	—	—	—	—	—	—	—	31.4	- 18.4	23	- 17	
" " 31st "	Rhyl	—	—	—	—	—	—	—	—	—	49.3	—	44	—	
" " 31st "	Newquay	—	—	—	—	—	—	—	—	—	42.9	- 7.0	39	- 8	
" " 31st "	Ochertyre	60	37	57.4	42.0	49.2	- 2.6	50	0	5	0.50	+ 0.02	—	—	
" " 31st "	Hillington	—	—	—	—	—	—	—	—	—	41.2	- 5.4	36	- 6	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 24.]
Fourth Series.

WEEK ENDING SATURDAY, JUNE 14TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 140.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	34	53.2	41.4	46.9	5 below	Day-deg. 37	Day-deg. - 33	Day-deg. 2	Day-deg. + 1	Day-deg. 435	Day-deg. 127	Day-deg. 660	Day-deg. + 91
	1. SCOTLAND, EAST	63	36	54.4	42.3	47.9	6 below	41	- 45	0	0	520	- 179	727	+ 109
	2. ENGLAND, N.E.	60	34	53.8	44.0	48.6	6 below	46	- 47	0	0	656	- 58	522	+ 13
	3. ENGLAND, EAST	63	34	56.3	44.6	50.0	6 below	56	- 50	0	0	796	- 88	516	- 41
	4. MIDLAND COUNTIES	61	35	55.4	43.8	49.2	7 below	50	- 56	0	0	805	- 105	523	- 43
	5. ENGLAND, SOUTH	63	41	56.4	46.7	51.2	6 below	64	- 50	0	0	822	- 162	358	- 55
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	37	57.9	43.0	50.4	4 below	59	- 32	0	0	663	- 95	483	+ 50
	7. ENGLAND, N.W.	60	33	55.6	44.7	49.8	6 below	55	- 45	0	0	693	- 109	421	+ 6
	8. ENGLAND, S.W.	61	39	55.6	46.4	50.6	6 below	60	- 46	0	0	843	- 112	324	+ 6
	9. IRELAND, NORTH	56	35	52.2	43.0	47.7	7 below	40	- 55	0	0	649	- 192	339	- 28
	10. IRELAND, SOUTH	61	38	55.6	43.9	49.3	7 below	51	- 55	0	0	873	- 139	240	- 28
	—CHANNEL ISLANDS.	60	45	57.6	49.0	53.0	4 below	77	- 35	0	0	1067	- 52	99	- 24

DISTRICTS. (See p. 140.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 8	10ths of in. 2 more	123	+ 19	Ins. 22.4	+ 1.4	27	- 11	22	- 8	549	- 16	27	- 1
	1. SCOTLAND, EAST	5	7	2 more	100	+ 13	11.2	- 1.4	27	- 13	22	- 11	578	- 42	28	- 2
	2. ENGLAND, N.E.	5	7	3 more	85	+ 4	9.8	0.0	21	- 19	18	- 16	610	- 17	29	- 1
	3. ENGLAND, EAST	5	15	10 more	87	+ 4	10.3	+ 0.6	20	- 29	18	- 25	674	- 78	31	- 4
	4. MIDLAND COUNTIES	5	7	2 more	81	+ 3	10.4	- 0.8	15	- 29	13	- 25	582	- 34	30	- 2
	5. ENGLAND, SOUTH	5	13	9 more	79	+ 2	10.8	- 0.4	27	- 21	24	- 19	693	- 82	32	- 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	6	1 less	109	+ 18	21.6	+ 0.6	21	- 23	17	- 20	585	- 62	29	- 3
	7. ENGLAND, N.W.	5	3	2 less	100	+ 16	12.5	- 0.6	24	- 20	20	- 17	689	+ 44	34	+ 2
	8. ENGLAND, S.W.	5	14	9 more	89	+ 2	13.8	- 2.7	21	- 32	18	- 28	681	- 87	34	- 4
	9. IRELAND, NORTH	5	4	2 less	119	+ 21	16.3	+ 2.3	16	- 24	14	- 20	591	- 36	29	- 2
	10. IRELAND, SOUTH	4	3	3 less	97	+ 5	15.3	- 2.0	23	- 21	20	- 18	652	- 52	32	- 3
	— CHANNEL ISLANDS.	6	6	2 more	93	+ 3	12.9	- 0.4	40	- 18	36	- 15	763	- 122	37	- 6

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was again very cold, wet, and unseasonable generally, but in Ireland and the north-west of Great Britain, the rain was less heavy than elsewhere. Thunder was experienced from time to time in different English localities.

Temperature was below the mean in all districts; the deficit ranging from 4° in Scotland W. and the Channel Islands, to 6° in most other districts, and to as much as 7° over Ireland and in the Midland Counties. The highest of the maxima were recorded on irregular dates, and varied from 68° in Scotland W. to 61° or 60° in several other districts, and to 56° in Ireland N. The lowest of the minima were recorded, as a rule, during the middle part of the week. They were as low as 33° in England N.W., and between 34° and 35° in most northern and eastern districts, but in England S. and the Channel Islands the lowest readings were 41° and 45° respectively. At Harrogate a thermometer exposed on the grass during the nights of Monday and Tuesday fell to 30.6° and 27.8°.

Rainfall was above the mean in nearly all parts of Great Britain, and the excess in England

S., S.W., and E. was very large. Over Ireland, however, and also in England N.W. and Scotland W. the fall was less than the normal.

Bright Sunshine was again very deficient throughout the whole Kingdom. The percentage of the possible duration ranged from 36 in the Channel Islands, and from 24 in England S. to 13 in the Midland Counties.

Barometer and Wind. During the first few days of the period pressure was highest to the westward of our Islands, and lowest in cyclonic disturbances to the eastward, the resulting wind being consequently Northerly. By Wednesday, however, the barometer had fallen in the west, and during the remainder of the week a depression, which was at first rather deep, travelled eastwards and north-eastwards over the English Channel and our southern counties to Norfolk, and subsequently in a northerly direction to a position off the east of Scotland. The cyclonic circulation of winds around this system was occasionally fresh or strong in force, especially in the west and north-west.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	52	38	49.4	40.3	44.5	- 4.5	25	5	7	1.71	+ 1.27	*	*	*
	Stornoway	57	39	53.6	42.1	47.5	- 3.9	39	0	5	0.57	+ 0.02	31.1	- 11.7	25 - 10
	Wick	60	34	52.7	39.6	45.7	- 5.7	36	7	6	0.78	+ 0.38	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*
	Glencarron	57	36	54.0	39.5	46.3	- 6.4	41	7	6	0.97	- 0.17	*	*	*
	Fort Augustus	57	40	53.6	43.1	48.0	- 5.8	42	0	5	0.59	+ 0.09	20.8	- 9.4	17 - 8
1. SCOTLAND, E.	Fort William	58	40	55.9	43.9	49.5	- 4.5	53	0	4	0.39	- 0.51	28.7	- 12.3	24 - 10
	Nairn	57	38	53.9	42.9	48.0	- 5.8	42	0	6	0.90	+ 0.50	*	*	*
	Aberdeen	54	38	51.7	43.9	47.5	- 5.7	39	0	7	0.52	+ 0.09	29.5	- 14.0	24 - 12
	Braemar	56	36	51.9	40.1	45.6	- 5.7	33	5	5	0.46	- 0.07	*	*	*
	Ochertyre	63	38	59.9	42.4	50.5	- 4.2	60	0	5	0.45	- 0.20	*	*	*
	Leith	60	39	55.3	44.0	49.3	- 5.5	51	0	4	0.60	+ 0.17	*	*	*
2. ENGLAND, N.E.	Marchmont	58	36	53.4	40.3	46.4	- 6.4	38	5	4	1.10	+ 0.52	32.5	- 8.8	27 - 7
	Alnwick Castle	60	40	56.0	43.0	49.1	- 3.8	50	0	5	0.48	+ 0.03	*	*	*
	Durham	56	37	52.8	42.3	47.2	- 7.3	36	0	3	0.50	+ 0.05	20.0	- 19.0	17 - 16
	Shields	58	40	51.9	44.4	47.9	- 5.8	41	0	6	0.55	+ 0.14	*	*	*
	Scarborough	57	42	53.3	46.0	49.4	- 5.1	52	0	7	0.72	+ 0.26	20.0	—	17 —
	Spurn Head	56	41	53.7	45.4	49.3	- 5.5	51	0	5	0.91	+ 0.55	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	57	34	55.2	42.8	48.6	- 7.9	46	0	5	1.19	+ 0.74	*	*	*
	Hillington	60	36	57.1	44.5	50.4	- 6.0	59	0	6	1.29	+ 0.81	19.0	- 26.5	16 - 23
	Yarmouth	58	41	54.4	46.0	49.9	- 5.4	55	0	5	1.40	+ 0.97	*	*	*
	Geldeston	63	34	58.3	43.8	50.6	- 5.2	60	0	6	1.27	+ 0.87	20.8	- 28.3	18 - 25
	Cambridge	60	35	57.3	43.3	49.8	- 7.6	55	0	6	0.94	+ 0.46	15.7	- 30.2	14 - 26
	Felixstowe	58	40	56.0	46.2	50.8	- 4.7	62	0	4	2.10	—	31.3	—	27 - 1
4. MIDLAND COUNTIES	Rothamsted	58	36	54.5	43.6	48.7	- 7.4	47	0	5	1.77	+ 1.29	13.0	- 31.3	11 - 28
	Harrogate	60	36	53.6	41.5	47.1	- 7.3	38	1	5	0.70	—	22.3	—	19 —
	Bawtry (Hesley Hall)	61	37	56.6	43.7	49.7	- 6.6	54	0	5	0.83	+ 0.33	*	*	*
	Loughborough	59	35	56.0	44.0	49.6	- 7.7	53	0	5	0.97	+ 0.48	*	*	*
	Colly Weston (Stamford)	58	35	55.6	42.9	48.8	- 8.0	48	0	6	0.97	—	*	*	*
	Cheadle	56	37	54.2	42.2	47.8	- 6.6	41	0	5	0.39	- 0.26	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	56	40	54.4	44.1	48.9	- 7.0	48	0	5	0.49	- 0.09	10.5	—	9 —
	Churchstoke	59	41	57.2	45.7	51.1	- 6.0	61	0	5	0.38	- 0.08	*	*	*
	Hereford	57	42	55.0	45.3	49.8	- 5.9	55	0	6	0.74	+ 0.24	16.0	- 30.0	14 - 26
	Cirencester	58	40	55.6	45.1	50.0	- 7.3	56	0	5	0.82	+ 0.35	13.2	- 32.3	11 - 29
	Oxford	63	42	57.1	46.1	51.2	- 7.4	64	0	5	2.04	+ 1.60	14.2	- 27.6	12 - 25
	Swarraton (Alresford)	58	42	55.9	45.8	50.5	- 4.9	60	0	5	2.08	+ 1.60	*	*	*
6. SCOTLAND, W.	Dungeness	58	41	56.6	47.0	51.5	- 5.2	67	0	3	0.23	- 0.07	26.6	—	24 —
	Hastings (St. Leonards)	59	43	56.5	46.8	51.3	- 5.4	65	0	6	0.43	+ 0.05	30.9	- 22.1	27 - 20
	Southampton	63	46	59.1	48.4	53.4	- 5.1	80	0	5	1.36	+ 0.93	23.3	- 26.6	21 - 23
	Portland Bill	59	46	54.7	48.1	51.2	- 5.2	64	0	4	0.95	—	*	*	*
	Shaftesbury	59	42	55.2	44.4	49.4	- 6.2	52	0	5	1.90	+ 1.39	*	*	*
	Laudale (Loch Sunart)	58	37	55.9	42.6	48.8	- 5.8	48	0	5	0.48	- 0.45	*	*	*
7. ENGLAND, N.W.	Glasgow	58	41	54.6	45.0	49.5	- 5.0	53	0	4	0.73	+ 0.10	22.0	- 15.0	18 - 13
	Cally	68	39	65.5	42.6	53.3	- 1.1	79	0	4	1.02	+ 0.29	*	*	*
	Douglas (Isle of Man)	59	42	55.6	45.4	50.1	- 4.2	57	0	4	0.19	- 0.34	19.2	- 32.3	16 - 27
	Newton Reigny	60	38	55.3	40.6	47.4	- 6.1	44	4	5	0.36	—	31.3	—	26 —
	Stonyhurst	58	36	55.6	43.9	49.3	- 6.1	51	0	4	0.30	- 0.43	26.0	- 19.0	22 - 17
	Blackpool	59	35	56.8	44.3	50.1	- 5.8	57	0	5	0.27	- 0.23	33.2	- 11.6	28 - 11
8. ENGLAND, S.W.	Manchester (Prestwich)	59	36	55.9	43.3	49.2	- 6.1	50	0	5	0.24	- 0.42	19.9	—	17 —
	Liverpool Obsy. (Bidston)	58	43	55.7	40.1	50.6	- 5.9	60	0	5	0.34	- 0.13	22.3	—	19 —
	Chester	58	40	56.1	45.6	50.5	- 6.5	60	0	5	0.31	—	*	*	*
	Llandudno	58	45	55.9	46.9	51.1	- 5.4	64	0	5	0.29	- 0.15	17.0	- 29.1	15 - 25
	Holyhead	55	46	53.3	47.0	49.9	- 5.6	55	0	5	0.47	+ 0.01	*	*	*
	Llandovery	60	39	57.1	44.7	50.5	- 5.5	60	0	6	0.74	+ 0.09	*	*	*
9. IRELAND, N.	Pembroke	57	45	53.7	46.3	49.7	- 5.5	54	0	5	1.13	+ 0.68	18.2	- 36.3	16 - 31
	Clifton	58	45	55.6	47.8	51.4	- 5.5	66	0	4	1.56	+ 1.04	*	*	*
	Bath	60	44	57.6	47.3	52.1	- 5.3	71	0	5	1.36	—	18.9	—	17 —
	Arlington (N. Devon)	56	43	53.3	44.0	48.3	- 6.5	44	0	6	3.09	+ 2.39	*	*	*
	Cullompton	61	44	57.2	46.6	51.5	- 5.6	67	0	5	0.87	+ 0.34	16.7	- 30.5	15 - 26
	Falmouth	59	43	55.3	46.7	50.7	- 6.0	61	0	6	1.51	+ 0.95	28.5	- 26.1	25 - 23
10. IRELAND, S.	Plymouth	58	46	54.6	47.5	50.8	- 7.1	62	0	5	1.27	+ 0.80	17.3	- 33.2	15 - 30
	Malin Head	54	40	51.3	43.0	46.9	- 7.2	34	0	5	0.13	—	*	*	*
	Edenfel (Omagh)	56	37	53.3	41.4	46.9	- 7.2	37	2	4	0.79	+ 0.14	*	*	*
	Blacksod Point	56	44	53.3	45.4	49.1	- 6.0	50	0	6	0.35	—	*	*	*
	Markree Castle	56	35	53.7	41.5	47.2	- 6.9	39	1	3	0.30	- 0.43	28.2	- 11.5	24 - 10
	Armagh	56	36	53.7	41.6	47.2	- 7.7	38	1	6	0.55	0.00	3.8	- 36.6	3 - 32
CHANNEL ISLANDS	Donaghadee	55	43	53.7	45.1	49.1	- 5.6	50	0	4	0.30	- 0.20	*	*	*
	Dublin	59	42	56.2	45.6	50.5	- 6.4	60	0	5	0.36	- 0.09	15.5	- 30.3	13 - 27
	Parsonstown	58	38	54.6	41.7	47.7	- 8.0	41	1	3	0.21	- 0.35	13.8	- 26.2	12 - 23
	Kilkenny	60	40	56.0	43.1	49.1	- 6.8	50	0	4	0.22	- 0.32	*	*	*
	Roche's Point	60	44	56.4	45.4	50.5	- 6.4	60	0	4	0.11	- 0.59	*	*	*
	Valencia	56	43	54.1	45.4	49.5	- 6.5	53	0	6	0.55	- 0.23	39.4	- 6.9	34 - 6
CHANNEL ISLANDS	Killarney	61	41	57.2	43.2	49.7	- 5.9	54	0	4	0.60	- 0.07	*	*	*
	Foynes	57	39	54.8	42.8	48.4	- 7.4	45	0	1	0.08	- 0.51	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	46	57.3	48.9	52.8	- 3.9	76	0	5	0.64	+ 0.24	39.1	—	35
	Jersey	60	45	57.9	49.1	53.2	- 4.9	78	0	6	0.57	+ 0.13	41.1	- 16.3	37 - 15

Stations marked *all* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.* An Asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 8th June.

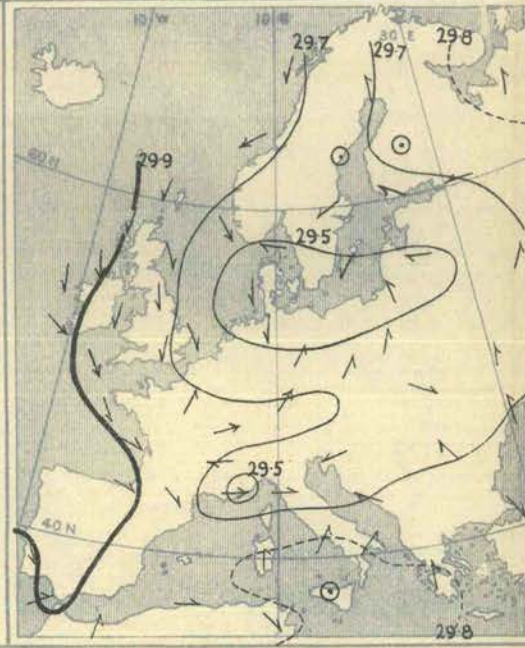
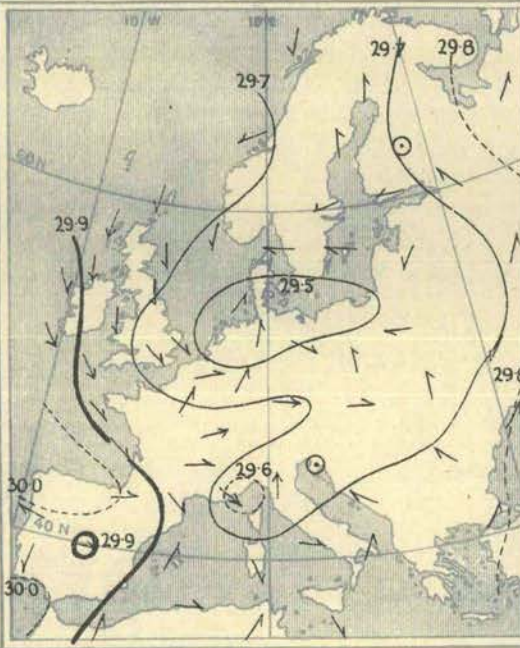
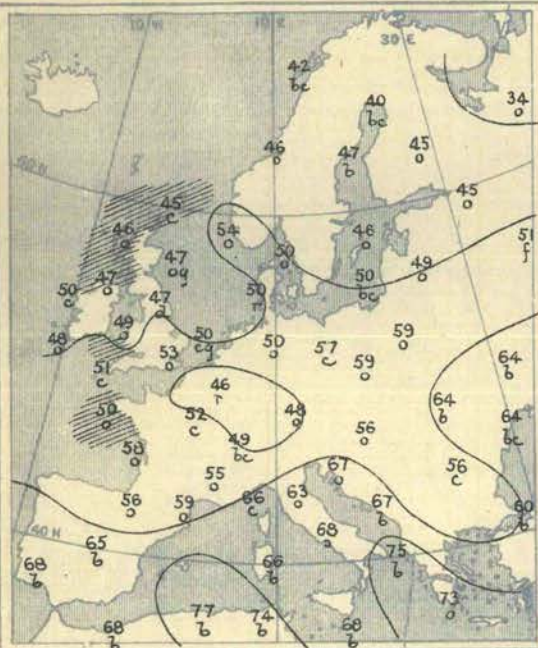
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning clear and bright over the eastern parts of Hungary, the Black Sea, the southern side of the Mediterranean, and the southern half of Spain. Cloudy, and more or less unsettled and showery elsewhere—particularly over Germany. Showers later over the British Islands, and considerable quantities of rain over central Europe.

Temperature fallen somewhat over Great Britain. Morning readings: highest, 77° at Algiers, 77° at Brindisi, 69° at Alicante, 66° at Nice, and more than 60° in Austria. Lowest, 34° at Archangel, 42° at Bodø, 45° at St. Petersburg and at Sumburgh Head, 47° at Malin Head and Shields. Rising later to 53° at Laghouat, and 86° at Naples, 79° at Nice, and 68° at Cetta, but not touching 60° at any of the stations in the British Islands, nor 50° at Sumburgh Head and Haparanda.

Wind light and variable over northern Europe. Northerly to North-Westerly in the British Islands, Westerly over France, South-Westerly to Southerly over central Europe. A separate cyclonic circulation round the Riviera. No decided change later, but wind at Nice, Leghorn, and Marseilles becoming very strong.

Barometer in morning highest, 30.0 ins. and more over the north of Spain, and 29.8 ins. and more over the north of Russia, over the Black Sea, and northern Africa. Lowest, 29.5 ins. and less over the Netherlands and north Germany, 29.6 ins. and less in a depression over the Riviera. Very little decided change later.

Monday, 9th June.

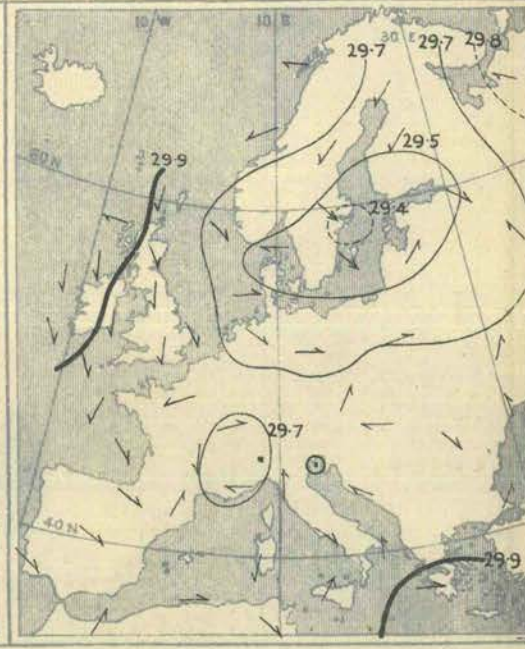
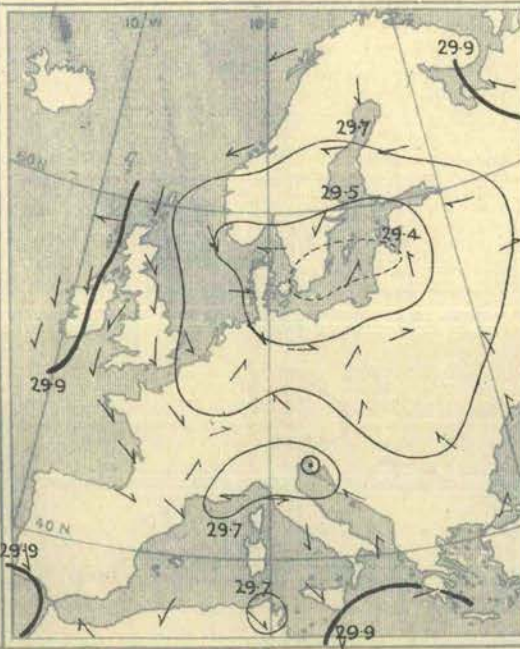
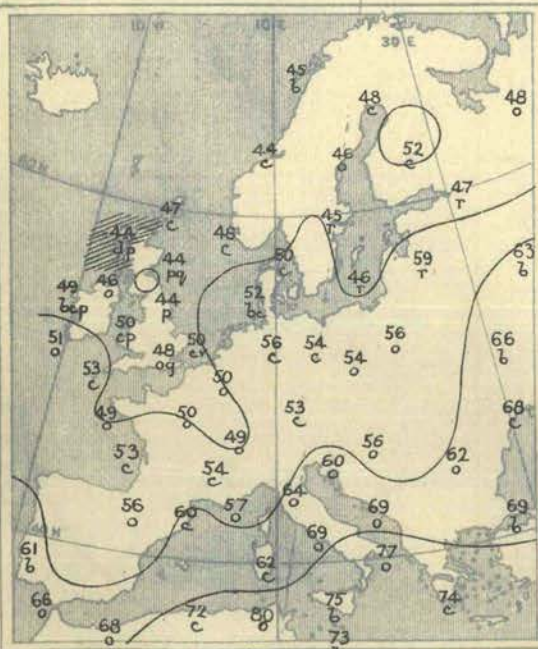
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning very little changed, but rain now falling freely over the Baltic and the adjacent parts of Europe; still gloomy and rather showery over the western countries. Very slight showers later in parts of the British Islands, France, and Germany. More over Scandinavia, and large quantities in the north of Spain.

Temperature changing but little. Morning readings highest, 80° at Sfax, and exceeding 70° in the southern and south-eastern sides of the Mediterranean, 68° at Odessa, and exceeding 60° over the south of Russia. Lowest, 44° at some Scotch stations, 45° at Bodø, 48° at Archangel, 46° at Hangö and Wisby. Touching 95° at Palermo later, 86° at Aumale and Brindisi, and touching 70° in parts of Hungary; not reaching 60° over the British Islands, nor 50° at Christiansund.

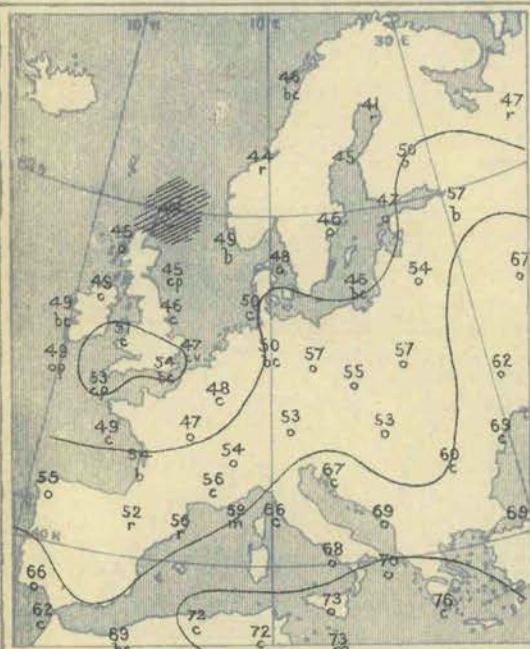
Wind Easterly over Scandinavia. Northerly and North-Westerly in the British Islands, Westerly and South-Westerly in Germany. Very variable over the southern half of Europe. Becoming more Northerly over Scandinavia later; no decided change elsewhere.

Barometer at 8 a.m. highest, 29.9 ins. and more over Ireland and the west of Scotland, and also in the north of Russia. Lowest, 29.4 ins. and less in a depression over the Baltic, 29.7 ins. and less over Switzerland and northern Italy. Rising a little in our Islands later; Baltic depression moving northwards.

Tuesday, 10th June.

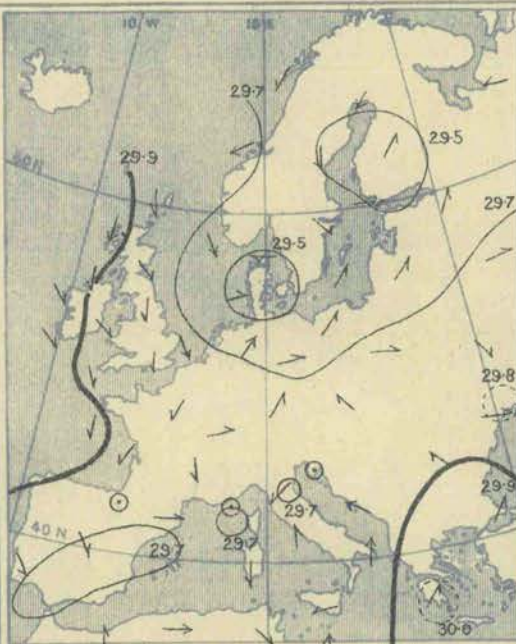
Temperature and Weather.

8 a.m.

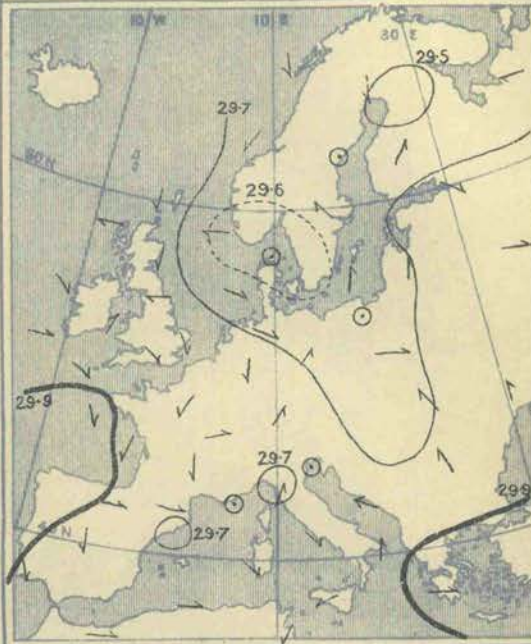


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at most of the English stations, but showery in Ireland and Scotland. Dull over the Continent generally, with rain in the northern parts of Russia and Scandinavia, and also at Svinemünde, Biarritz and Perpignan. No important change occurring over our Islands later, but rain falling in many parts of central and southern Europe, and a thunderstorm occurring at Biarritz; sky clearing at several of the Russian and Swedish stations.

Temperature risen slightly over our Islands, changed very irregularly elsewhere. Morning readings highest, 79° at Sfax, 76° at Patras, and 73° at Palermo and Algiers; above 65° over Italy and south-eastern Europe generally. Lowest, 40° at Uleaborg, 41° at Haparanda, and 44° at Helsingfors and Christiansund; lowest in our Islands, 45° at Sumburgh Head, Stornoway and Newton Reigny. Daily maxima below 60° over the United Kingdom generally, and below 55° in very many places; thermometer exceeding 60° in France and Germany, and exceeding 70° over southern and eastern Europe, the highest reading reported being 80° at Palermo.

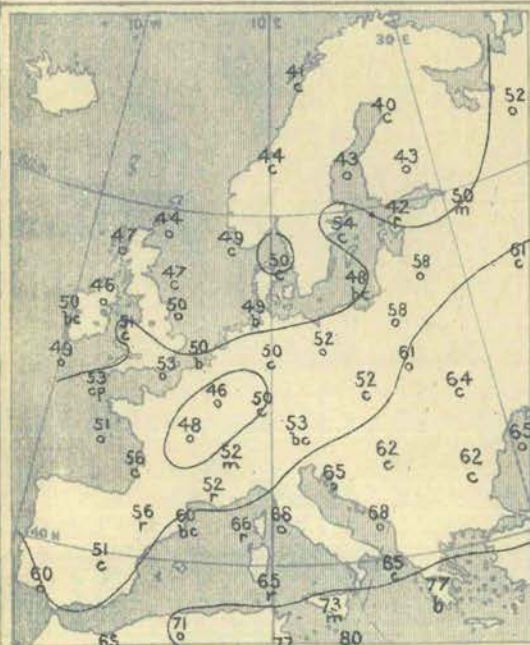
Wind light to moderate from the Northward or North-Westward in our Islands, and also over the Spanish Peninsula; Northerly or North-Easterly in France. North-Easterly in Scandinavia, but South-Westerly over Denmark, north Germany, the Baltic and western Russia. South-Easterly in Austria; variable over Italy and the south of Russia. Subsequently backing to the Westward in the west and south of our Islands; no important change occurring elsewhere.

Barometer highest, 29.9 ins. and upwards in a large area extending from the Atlantic over the Hebrides, Ireland and a portion of the Bay of Biscay; and also in another area over south-eastern Europe. Lowest, 29.5 ins. and less in two cyclonic areas—one lying over Denmark, and the other over Finland and the Gulf of Bothnia; 29.7 ins. and less in another system over the east and south of Spain. Atlantic high pressure system giving way later; depressions over northern Europe both moving slowly north-eastwards.

Wednesday, 11th June.

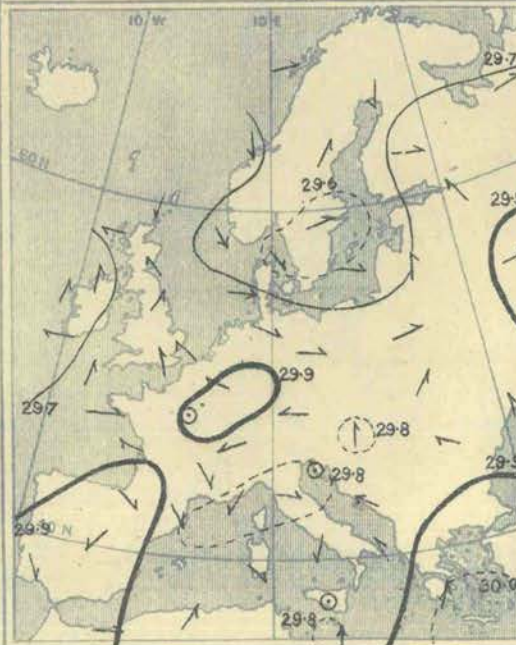
Temperature and Weather.

8 a.m.

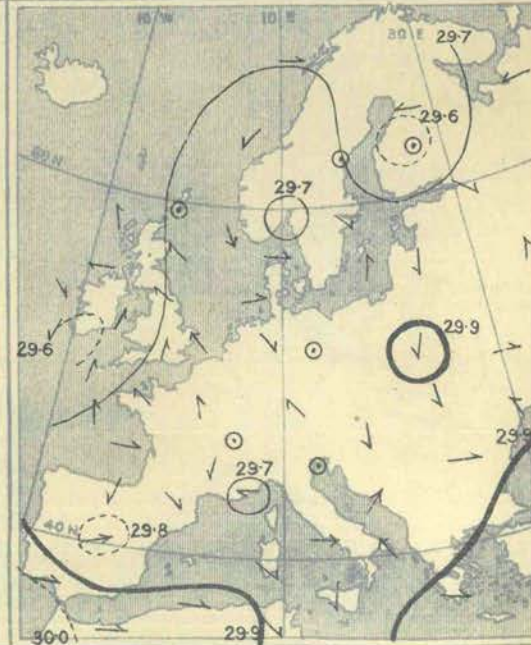


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in isolated places, but cloudy and dull over Europe as a whole; showers falling at one or two of our own western stations, and steady rain over the Gulf of Finland, as well as in several parts of Austria, northern Italy and the south of France. Rain falling later over nearly the whole of the United Kingdom and the north of France; sky clearing over Scandinavia, Denmark and Germany.

Temperature risen over Great Britain and the north and west of France, changed very irregularly elsewhere. Morning readings highest, 80° at Malta, 77° at Patras and Sfax, and 73° at Athens and Palermo; above 65° over nearly the whole of Italy, the Mediterranean and south-eastern Europe. Lowest, 40° at Haparanda, 42° at Hango, and 43° at Helsingfors, Kuopio and Helsingfors; lowest in our Islands, 44° at Sumburgh Head, and 46° at Malin Head. Daily maxima below 55° on most parts of our western, northern and eastern coasts, and below 60° in nearly all other parts of the Kingdom, but thermometer rising to 63° in London. Exceeding 65° in the west of France, and exceeding 70° over the greater part of southern and eastern Europe.

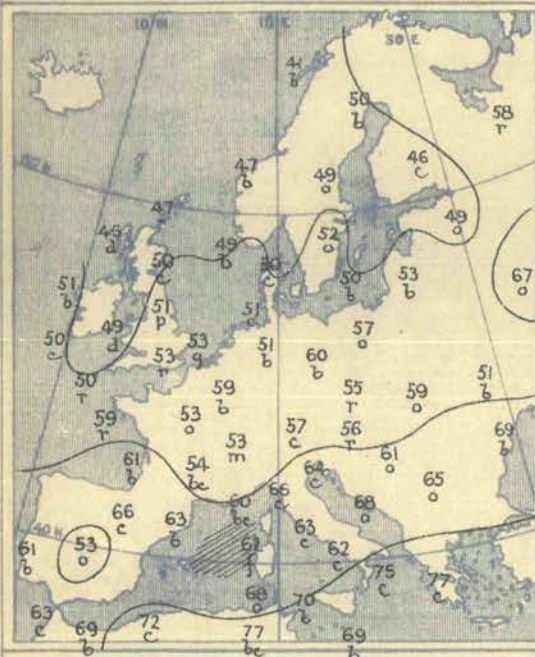
Wind light from the Southward or South-Westward on our western and southern coasts, but from the South-Eastward in the north and east. Northerly in the west of Norway, Westerly over Denmark, North Germany and the Baltic; variable in Finland; Westerly over northern Russia. Light and variable over the greater part of central and southern Europe, but Northerly or North-Westerly in Spain and the extreme south of France. Subsequently shifting to the Northward in the west of Ireland; no important change occurring elsewhere.

Barometer highest, 30.0 ins. and upwards in Greece; 29.9 ins. and upwards in three areas—one lying over Spain, another over Belgium and the neighbouring parts of France and Germany, and the third over central Russia. Lowest, 29.6 ins. and less in a shallow cyclonic system over the south of Sweden; 29.7 ins. and less in a large area over the west of Ireland and the adjacent parts of the Atlantic. Depression over Sweden subsequently moving north-eastwards over Finland; small cyclonic disturbance appearing in evening off the south of Ireland.

Thursday, 12th June.

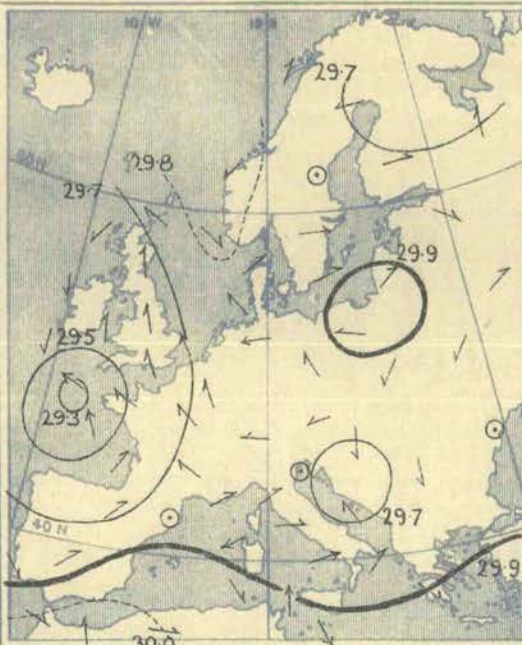
Temperature and Weather.

8 a.m.

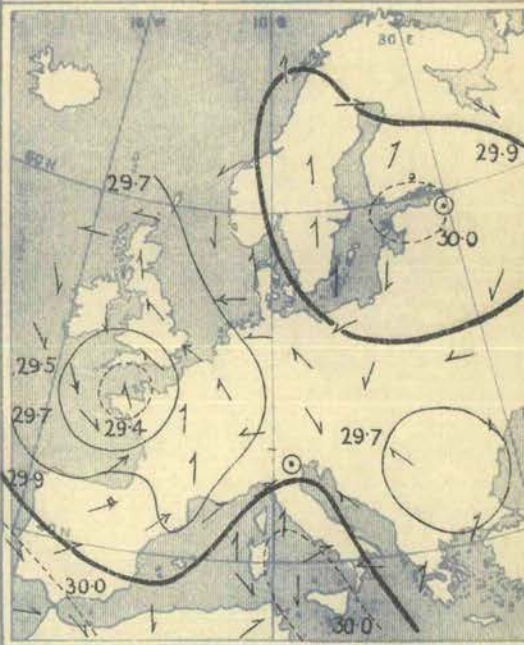


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and unsettled over the United Kingdom and the north of France, with rain in many places. Fair or fine over the western and southern parts of the Continent, but dull at many of the Swedish, Russian, and Austrian stations, with rain at Vienna. Rain falling later over western and central Europe generally, heavily in places—as much as 1.1 ins. at Charleville. Thunderstorm occurring at Lyons in evening.

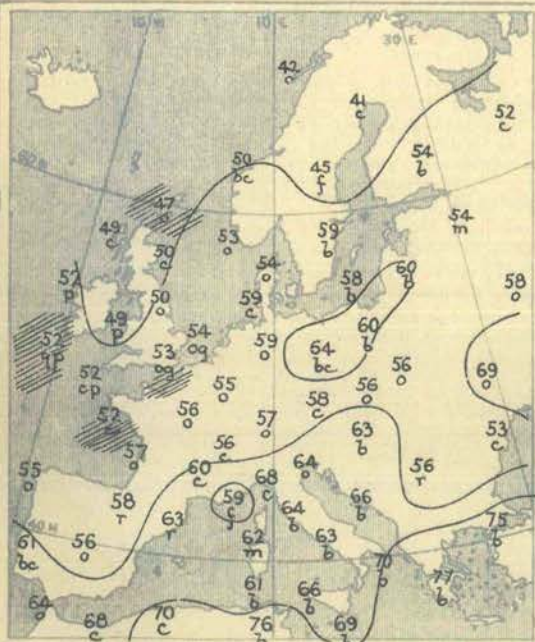
Temperature risen over the western and northern parts of the Continent; changed very irregularly elsewhere. Morning readings highest, 77° at Athens and La Calle, 75° at Brindisi, and 72° at Patras and Algiers; above 65° at most of the Mediterranean stations, and also over central and southern Russia. Lowest, 41° at Bodö, and 40° at Kuopio, Hangö, and Helsingfors; below 50° at several of our own northern stations. Daily maxima below 55° in many parts of the United Kingdom, and below 60° at all stations excepting Wick. Thermometer exceeding 70° over central and southern Europe, the highest readings reported being 84° at Sanguinahre and 82° at Malta.

Wind South-Easterly over western Europe generally, and strong in force at the mouth of the Channel, but Northerly or North-Easterly in Ireland. Northerly or North-Easterly in the west of Norway; Westerly or South-Westerly in Sweden and Finland; variable over central and southern Russia. Westerly or South-Westerly over Spain, Italy, and the extreme south of France; light from the Northward in Austria. Subsequently shifting to the Northward on the west coast of England; backing to the Southward in Sweden and Finland. Barometer highest, 30.0 ins. and upwards over Morocco and the extreme south of Spain; 29.9 ins. and upwards over the Baltic provinces and their neighbourhood. Lowest, 29.3 ins. and less in a well-marked cyclonic system with its centre near the mouth of the English Channel; 29.7 ins. and less in a shallow area over the extreme north of Russia, and also in another system over Austria-Hungary. Cyclonic disturbance off mouth of Channel moving slowly eastwards during day and passing north-eastwards across the south coast of England at night.

Friday, 13th June.

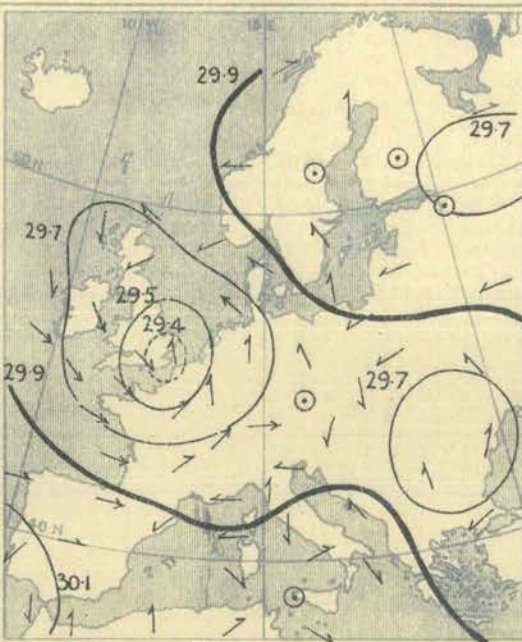
Temperature and Weather.

8 a.m.

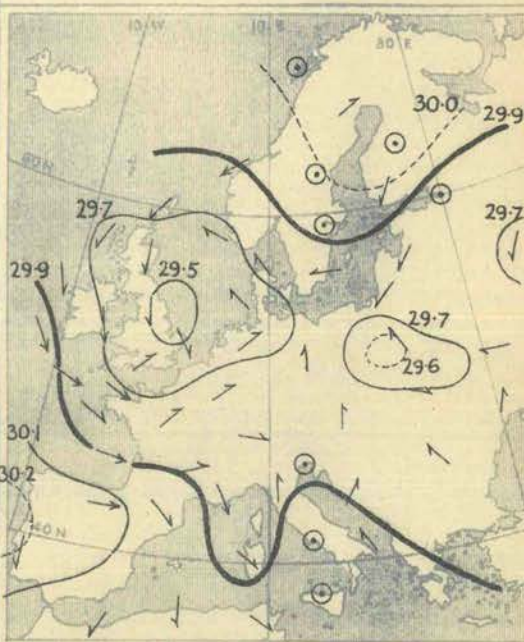


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western Europe generally, with rain or passing showers at many of the English and Irish stations. Fine over Scandinavia, northern Russia, and the Baltic, and also over Greece and southern Italy. Rain falling later in all the western countries—heavily in the south and east of England.

Temperature fallen over England and the west and south of France, risen in most other parts of Europe. Morning readings highest, 77° at Athens, 76° at Patras and La Calle, and 75° at Constantinople; above 65° at most of the Mediterranean and Adriatic stations, and also at some places in the south of Russia. Lowest, 41° at Haparanda, 42° at Bodö, and 45° at Hernösand. Lowest, in our Islands, 47° at Sumburgh Head. Remaining below 55° all day in many parts of the United Kingdom, and reaching 60° at Roche's Point only; exceeding 60° over central France, and exceeding 70° in most parts of southern Europe; the highest reading reported being 80° at Pesaro.

Wind showing a complete cyclonic circulation over the western parts of the Continent, being South-Easterly in Denmark, Easterly in Norway and Scotland, North-Westerly on our western coasts. Westerly over the Channel and Bay of Biscay, South-Westerly over central France, and Southerly in the Netherlands. Southerly in Sweden and Finland, Easterly or South-Easterly in the south of Russia, variable in Italy, North-Westerly over the Spanish Peninsula. Subsequently shifting to the North-Westward over the whole of England; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in an anticyclone extending from the Atlantic over the south-western parts of the Spanish Peninsula; 30.0 ins. and upwards in another system over northern Russia. Lowest, 29.4 ins. and less in a well-marked cyclonic system with its centre over the east of England, 29.7 ins. and less in a shallow depression over south-eastern Europe. Cyclonic system over our eastern counties moving northwards later over the southern part of the North Sea, and barometer rising at all our own western and southern stations.

Saturday, 14th June.

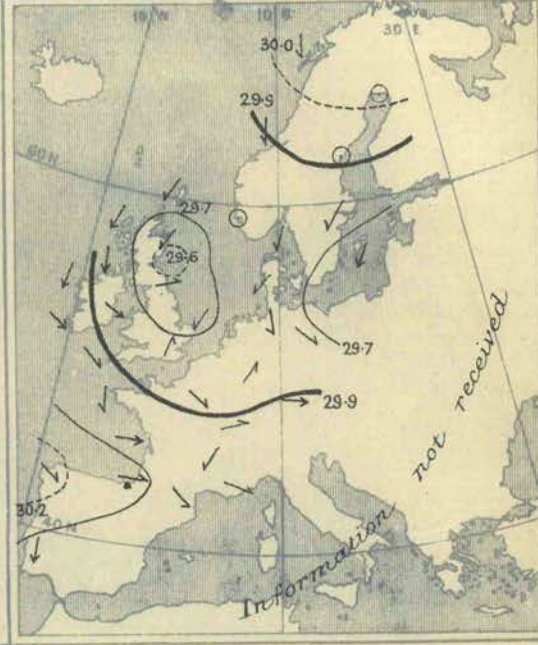
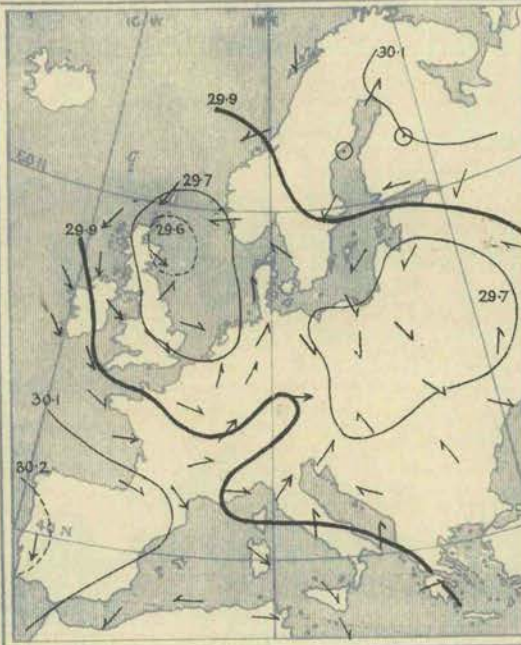
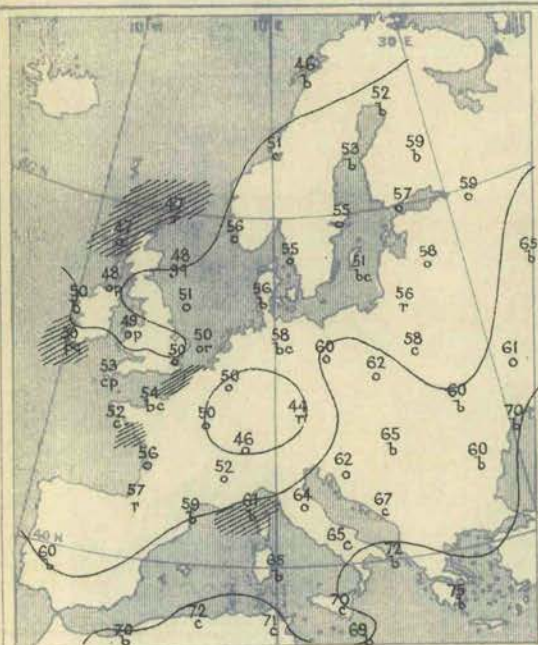
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in most southern and south-eastern regions and also in the north of Europe, cloudy or dull elsewhere, with rain at some German and French stations, and in many parts of the United Kingdom. Rain falling later in all parts of the United Kingdom and in most French and German districts. Thunder and lightning occurring in several English localities.

Temperature very low for time of year excepting in the extreme south and south-east. Readings at 8 a.m. highest, 75° at Athens, 72° at Brindisi and Algiers, 70° at Neaples and Odessa, and 65° at Moscow. Lowest, 44° at Munich, 46° at Belfort and Bodo, 47° or 48° in Scotland and the north of Ireland, 48° at Malin Head, Parsonstown, and Oxford, 50° at Paris and Limoges, and 52° at Lyons and Cape Sicé. Rising later to 77° at Nice, 74° at Perpignan, 66° at Haparanda, 63° at Paris and at some German and Danish stations, and to 60° at Leith; not touching 50° in the extreme north and north-west of our Islands, and remaining as low as 52° at Yarmouth.

Wind circulating round a low-pressure centre off the north-east of Scotland, the Northerly and North-Westerly winds over Scotland and our western coasts being fresh or strong in force. Two other cyclonic circulations shown—one of fresh or strong winds over the Gulf of Genoa and its vicinity, and the other of light winds over central Europe. Very little change over western Europe later.

Barometer in morning highest, 30.2 ins. and upwards over the north-west of the Iberian Peninsula, and above 30.1 ins. in the extreme north-east of Europe. Lowest, about 29.5 ins. in a disturbance off the north-east of Scotland; below 29.7 ins. in a large shallow area embracing nearly the whole of central Europe, and below 29.8 ins. over the Gulf of Genoa. Northern disturbance beginning to recede southwards later in the day. No other important change.

GENERAL NOTES.

The weather of this week may be considered in two classes, viz. that which prevailed over western, and that over eastern Europe.

In the former case we had between Sunday and the morning of Wednesday a continuance of high barometric pressure over and off the west and north-west coasts, comparatively low over the Baltic, the south of France and the Mediterranean. Northerly winds were prevalent, the weather was very cold and gloomy and showers were experienced in most places. On Wednesday, pressure having previously given way over the western parts of the United Kingdom, a very shallow depression appeared over the south of Ireland, and travelling south-eastwards to the mouth of the English Channel it grew deeper, causing a "swirl" of great

magnitude over western Europe, and producing rains of considerable quantity in most places. It then moved eastwards to the neighbourhood of the Channel Islands, and then north-eastward and northward over England to a position off the east of Scotland, where it lay on Saturday morning. Other shallower systems appeared in its rear. The weather was very cold for the time of year, especially during the daytime, and rainfall over our eastern counties was very abundant.

Over the eastern part of the Continent the winds were light—commonly Southerly at first, then more variable; but towards the latter half of the week complications ensued, and very heavy rains fell at some of the Swiss stations.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ——— = a heavy gale; ——— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and ○ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.30 a.m.)

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; at 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 140.

STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week
DEERNES	38.7	+ 1.1	29	+ 1	THURCASTON	10.5	- 30.0	9	- 26	BOURNEMOUTH	39.2	—	35	—
STRATHPEFFER SPA	18.8	- 19.2	15	- 16	MARGATE	25.7	- 17.3	23	- 15	SOUTHPORT	29.2	—	25	—
EDINBURGH	18.7	- 16.2	16	- 14	BROADSTAIRS	29.0	—	26	—	RHYL	24.9†	—	21†	—
MORPETH	27.1	—	23	—	EASTBOURNE	30.3	- 20.9	27	- 18	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	15.0	—	13	—	BRIGHTON	26.3	- 25.7	23	- 21	ABERDOVEY	12.1†	—	10†	—
YORK	22.0	- 18.2	19	- 15	WORTHING	26.3	—	23	—	TENBY	23.8	- 30.7	21	- 27
LOWESTOFT	23.6	—	21	—	BOGNOR	24.2†	—	21†	—	NEWQUAY	18.8	- 33.8	17	- 30
DUNMOW	15.2	—	13	—	WATERGATE	20.4	—	18	—	TORQUAY	23.7	- 31.7	21	- 28
HOLLESLEY BAY	24.1	—	21	—	WESTBOURNE	35.3†	- 14.3	31†	- 13	GUERNSEY	39.6†	- 19.4	36	- 17
SHEFFIELD	14.7	—	13	—	VENTNOR HOSPITAL	29.0	- 17.2	26	- 15					
WORKSOP	15.2	- 22.3	13	- 20										

† The values at Bognor, Westbourne, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.
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VOL. XIX. No. 25.]
Fourth Series.

WEEK ENDING SATURDAY, JUNE 21ST, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 146.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	35	55.4	44.3	49.4	4 below	Day-deg. 52	Day-deg. - 21	Day-deg. 0	Day-deg. 0	Day-deg. 487	Day-deg. 148	Day-deg. 600	Day-deg. + 91
	1. SCOTLAND, EAST	66	32	55.0	43.6	48.9	6 below	48	- 41	0	0	568	- 220	727	+ 109
	2. ENGLAND, N.E.	71	39	57.5	46.7	51.8	4 below	69	- 28	0	0	725	- 86	522	+ 13
	3. ENGLAND, EAST	74	40	62.3	48.2	54.8	3 below	90	- 20	0	0	886	- 108	516	- 41
	4. MIDLAND COUNTIES	72	40	61.6	46.8	53.7	4 below	82	- 27	0	0	887	- 132	523	- 43
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	73	38	60.8	48.3	54.1	4 below	85	- 33	0	0	907	- 195	358	- 55
	6. SCOTLAND, WEST	67	42	59.7	47.6	53.2	2 below	78	- 16	0	0	741	- 111	483	+ 50
	7. ENGLAND, N.W.	68	42	59.8	48.6	53.9	3 below	83	- 20	0	0	781	- 129	421	+ 6
	8. ENGLAND, S.W.	66	39	60.3	48.4	53.9	4 below	83	- 26	0	0	926	- 138	324	+ 6
	9. IRELAND, NORTH	66	42	58.4	48.3	53.0	3 below	77	- 20	0	0	726	- 212	339	- 28
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	68	42	60.3	49.2	54.4	3 below	87	- 19	0	0	960	- 158	240	- 28
	-CHANNEL ISLANDS.	65	47	59.8	50.9	55.1	3 below	92	- 24	0	0	1159	- 76	99	- 24

DISTRICTS. (See p. 146.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	10ths of in. 2	5 less	125	+ 18	22.6	+ 0.9	32	- 5	26	- 4	581	- 21	27	- 1	
	1. SCOTLAND, EAST	2	2	3 less	102	+ 12	11.4	- 1.7	17	- 23	14	- 19	595	- 64	28	- 3	
	2. ENGLAND, N.E.	2	2	1 less	87	+ 3	10.1	- 0.2	19	- 23	16	- 18	629	- 40	28	- 2	
	3. ENGLAND, EAST	3	2	2 less	90	+ 4	10.5	+ 0.3	40	- 8	35	- 7	714	- 87	31	- 4	
	4. MIDLAND COUNTIES	4	7	1 more	85	+ 4	11.1	- 0.6	17	- 23	15	- 19	599	- 55	29	- 3	
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	5	8	4 more	84	+ 4	11.6	- 0.1	37	- 12	33	- 10	730	- 93	32	- 5	
	6. SCOTLAND, WEST	4	5	3 less	113	+ 18	22.1	+ 0.4	14	- 30	12	- 24	599	- 92	28	- 4	
	7. ENGLAND, N.W.	4	6	0 (average)	104	+ 17	13.1	- 0.6	14	- 29	11	- 26	703	+ 15	33	+ 1	
	8. ENGLAND, S.W.	5	7	1 more	94	+ 4	14.5	- 2.6	23	- 30	20	- 26	704	- 116	33	- 6	
	9. IRELAND, NORTH	4	6	1 less	123	+ 21	16.9	+ 2.3	15	- 24	13	- 20	606	- 61	28	- 3	
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	5	10	4 more	102	+ 6	16.3	- 1.6	22	- 21	19	- 18	674	- 74	31	- 4	
	- CHANNEL ISLANDS.	5	5	1 more	98	+ 5	13.4	- 0.3	39	- 22	34	- 20	802	- 145	37	- 7	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was again of an unsettled and unseasonable character generally, but rain was less frequent and heavy over the country as a whole than during the few preceding weeks. Thunderstorms were experienced in some parts of England and Wales on Monday, and thunder was heard locally later in the week.

Temperature continued below the mean, the deficit ranging from 2° in Scotland W., and 3° over Ireland and the N.W. and E. of England, to as much as 6° in Scotland E. The highest of the maxima were registered, as a rule, either on the 19th or 21st, and ranged from 74° in England E. and 73° in England S. to 65° in the Channel Islands. The lowest of the minima were recorded during the early days of the period, and varied from 32° in Scotland E. to 42° in Ireland and England N.W., and to 47° in the Channel Islands.

Rainfall exceeded the mean in the Channel Islands, England S. and S.W., the Midland Counties, and also in Ireland S., and was just equal to it in England N.W.; elsewhere the fall was less than the normal.

Bright Sunshine was again very deficient over the whole Kingdom. The percentage of the possible duration ranged from 35 in England E., and 33 in England S., to 13 in Ireland N., 12 in Scotland W., and 11 in England N.W.

Barometer and Wind. During the early days of the week a disturbance, which was noted in last week's report as having reached the east of Scotland from the southward, returned slowly southwards over our eastern counties and gradually dispersed. By Wednesday an area of relatively high pressure covered Great Britain, the North Sea and France, but a new disturbance had arrived off the south-west of Ireland, and the wind, which had hitherto been mainly Northerly, shifted to the South-Eastward or Eastward. During the next day or two this system continued to spread eastwards, and caused a considerable increase in the force of the wind in the south-west and west. Towards the end of the week, however, it moved away in a north-westerly direction; a secondary disturbance which had reached the south-east of England travelled slowly northwards.

DISTRICTS	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N	Sumburgh Head	53	41	51.6	43.0	47.0	- 2.9	35	0	1	0.01	- 0.44	*	*	*	*
	Stornoway	61	40	56.1	44.0	49.6	- 2.3	53	0	2	0.43	- 0.13	43.6	+ 1.2	35	+ 1
	Wick	62	39	53.1	44.1	48.3	- 4.0	44	0	2	0.22	- 0.19	*	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron	65	37	57.2	42.9	49.6	- 4.0	53	0	2	0.22	- 0.93	*	*	*	*
	Fort Augustus	59	35	54.8	44.0	49.0	- 5.9	49	0	2	0.14	- 0.38	21.1	- 0.2	17	- 7
1. SCOTLAND, E	Fort William	66	40	59.5	47.6	53.1	+ 1.8	78	0	4	0.16	- 0.77	18.6	- 22.0	15	- 18
	Nairn	62	34	55.6	42.3	48.5	- 6.4	46	0	2	0.40	- 0.03	*	*	*	*
	Aberdeen	55	43	52.4	45.3	48.6	- 5.6	46	0	2	0.05	- 0.39	31.8	- 12.0	26	- 9
	Braemar	65	32	55.4	40.3	47.3	- 5.4	44	5	2	0.11	- 0.44	*	*	*	*
	Ochertyre-	61	40	58.9	45.0	51.5	- 4.5	67	0	2	0.06	- 0.61	*	*	*	*
	Leith	66	45	54.9	46.7	50.5	- 5.5	60	0	3	0.24	- 0.21	*	*	*	*
2. ENGLAND, N.E.	Marchmont	63	39	52.9	41.7	46.9	- 7.1	36	1	3	0.34	- 0.26	12.8	- 28.6	11	- 23
	Alnwick Castle	64	39	57.1	44.7	50.5	- 3.7	60	0	3	0.93	+ 0.48	*	*	*	*
	Durham	65	40	55.7	45.0	50.0	- 5.9	56	0	2	0.32	- 0.13	15.0	- 24.1	13	- 20
	Shields	58	44	52.9	46.0	49.2	- 5.6	50	0	2	0.41	- 0.01	*	*	*	*
	Scarborough	63	45	56.3	48.1	52.2	- 3.6	71	0	0	0.00	- 0.48	31.4	—	27	—
	Spurn Head	62	47	58.7	49.1	53.6	- 2.4	81	0	1	0.07	- 0.29	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	71	42	63.7	47.4	55.0	- 2.8	91	0	3	0.16	- 0.29	*	*	*	*
	Hillington	71	42	63.9	47.9	55.3	- 2.5	93	0	4	0.51	- 0.00	37.7	- 7.7	32	- 7
	Yarmouth-	68	47	60.4	51.0	55.4	- 1.3	94	0	2	0.21	- 0.24	*	*	*	*
	Geldeston	71	41	62.0	47.9	54.5	- 2.7	88	0	4	0.11	- 0.30	47.7	- 1.3	41	- 1
	Cambridge	74	42	65.5	47.1	55.7	- 3.0	96	0	3	0.23	- 0.26	35.3	- 10.7	31	- 9
	Felixstowe	67	46	60.2	49.4	54.4	- 2.6	87	0	3	0.09	—	44.0†	—	38†	—
4. MIDLAND COUNTIES	Rothamsted	69	40	61.9	46.0	53.4	- 4.2	80	0	2	0.20	- 0.30	29.4	- 15.3	26	- 13
	Harrogate	64	42	58.3	46.6	52.0	- 3.3	70	0	3	0.92	+ 0.27	15.4	—	13	—
	Bawtry (Hesley Hall)	68	44	63.9	48.1	55.5	- 2.1	95	0	1	0.06	- 0.46	*	*	*	*
	Loughborough	70	43	63.7	47.1	54.8	- 3.7	90	0	5	0.75	+ 0.25	*	*	*	*
	Colly Weston (Stamford)	72	42	65.3	46.0	55.0	- 3.1	91	0	3	0.15	—	*	*	*	*
	Cheadle	65	43	60.1	45.7	52.4	- 3.3	73	0	3	0.67	0.00	*	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	67	44	60.4	47.9	53.7	- 3.4	82	0	3	0.32	- 0.08	4.5	—	4	—
	Churchstoke	65	40	59.9	46.5	52.7	- 3.1	75	0	4	0.97	+ 0.49	11.7	- 33.1	10	- 29
	Hereford	68	40	60.6	46.4	53.0	- 5.2	77	0	4	1.02	+ 0.56	*	*	*	*
	Cirencester	65	42	61.2	45.7	52.9	- 3.9	76	0	6	1.24	+ 0.74	20.3	- 25.7	18	- 23
	Oxford	69	42	62.1	47.9	54.5	- 4.0	88	0	4	0.30	- 0.19	23.8	- 21.7	21	- 19
	London	73	46	65.0	49.9	56.9	- 2.9	104	0	6	0.27	- 0.18	24.7†	- 17.5†	21†	- 16†
6. SCOTLAND, W.	Swarraton (Alresford)	67	38	61.8	45.5	53.1	- 3.5	78	0	5	1.33	+ 0.87	*	*	*	*
	Dungeness	65	45	60.0	49.6	54.4	- 3.5	87	0	4	0.45	+ 0.15	40.9	—	36	—
	Hastings (St. Leonards)	67	44	60.1	49.0	54.2	- 3.8	85	0	6	0.29	- 0.11	41.4	- 11.6	36	- 11
	Southampton	68	43	62.2	48.6	54.9	- 4.7	90	0	6	1.03	+ 1.20	30.4	- 19.9	27	- 17
	Portland Bill	60	46	57.6	49.1	53.1	- 4.2	78	0	5	0.43	—	*	*	*	*
	Shaftesbury	62	43	58.3	46.3	52.1	- 4.6	71	0	6	1.45	+ 0.93	*	*	*	*
7. ENGLAND, N.W	Laudale (Loch Sunart)	65	43	60.6	49.4	54.6	- 1.0	88	0	1	0.01	- 0.95	*	*	*	*
	Glasgow	66	45	56.6	46.3	51.1	- 4.5	64	0	4	0.22	- 0.44	8.6	- 28.7	7	- 24
	Cally	67	42	64.2	45.4	54.2	- 1.5	85	0	5	1.03	+ 0.28	*	*	*	*
	Douglas (Isle of Man)	60	45	57.5	49.1	53.0	- 2.2	77	0	5	0.54	- 0.02	20.2	- 30.4	17	- 25
	Newton Reigny	66	42	57.6	46.7	51.8	- 3.0	69	0	3	0.53	—	10.0	—	8	—
	Stonyhurst	65	44	60.0	48.8	54.0	- 2.5	84	0	3	0.40	- 0.36	11.2	- 33.6	9	- 29
8. ENGLAND, S.W.	Blackpool	68	44	61.3	49.1	54.8	- 2.3	90	0	5	0.66	+ 0.14	14.2	- 30.4	12	- 26
	Manchester (Prestwich)	68	44	60.5	48.1	53.9	- 2.6	83	0	3	0.32	- 0.38	6.1	—	5	—
	Liverpool Obsy. (Bidston)	64	42	59.4	48.7	53.7	- 4.1	82	0	5	0.98	+ 0.50	13.5	—	12	—
	Chester	66	45	61.0	48.7	54.4	- 3.6	87	0	4	0.37	—	*	*	*	*
	Llandudno	66	47	60.3	50.6	55.1	- 2.6	92	0	6	0.43	- 0.02	22.1	- 23.9	19	- 21
	Holyhead	64	46	58.4	48.4	53.1	- 3.6	78	0	4	1.04	+ 0.59	*	*	*	*
9. IRELAND, N.	Llandoverly	66	41	62.6	48.3	55.0	- 2.1	91	0	5	0.62	- 0.03	*	*	*	*
	Pembroke	60	45	57.1	49.0	52.8	- 3.4	76	0	4	0.39	- 0.06	21.7	- 32.4	19	- 28
	Clifton	66	45	61.1	48.8	54.5	- 3.7	88	0	4	0.63	+ 0.12	*	*	*	*
	Bath	66	40	62.0	47.1	54.0	- 4.7	84	0	5	0.84	—	21.2	—	19	—
	Arlington (N. Devon)	62	41	59.1	46.4	52.3	- 3.7	72	0	4	0.72	- 0.01	*	*	*	*
	Cullompton	66	39	61.5	46.8	53.6	- 4.5	81	0	6	0.87	+ 0.35	16.0	- 30.6	14	- 27
10. IRELAND, S.	Falmouth	63	47	58.5	50.4	54.2	- 3.7	85	0	5	0.68	+ 0.11	33.5	- 20.9	30	- 19
	Plymouth	65	47	60.1	50.0	54.7	- 4.3	89	0	4	0.56	+ 0.09	29.4	- 21.1	26	- 19
	Malin Head	61	45	56.3	47.4	51.5	- 3.5	67	0	4	0.40	- 0.13	*	*	*	*
	Edenfel (Omagh)	66	44	60.9	48.0	54.0	- 1.1	84	0	4	0.50	- 0.17	*	*	*	*
	Blacksod Point	63	46	58.4	50.0	53.9	- 2.2	83	0	5	0.66	+ 0.03	*	*	*	*
	Markree Castle	66	42	60.9	48.2	54.1	- 1.0	85	0	5	0.70	- 0.04	19.3	- 19.1	16	- 17
CHANNEL ISLANDS	Armagh	64	44	58.8	48.1	53.1	- 3.0	78	0	4	0.44	- 0.13	10.1	- 29.6	9	- 25
	Donaghadee	57	44	55.3	47.9	51.3	- 4.4	65	0	4	0.64	+ 0.13	*	*	*	*
	Dublin	66	45	59.5	49.4	54.1	- 3.9	85	0	4	1.01	+ 0.56	19.1	- 26.3	16	- 23
	Parsonstown	68	45	60.6	48.3	54.0	- 2.7	84	0	4	0.32	- 0.23	17.5	- 21.7	15	- 19
	Kilkenny	67	45	59.9	47.6	53.3	- 3.6	79	0	5	0.74	+ 0.19	*	*	*	*
	Roche's Point	63	46	57.6	49.6	53.3	- 4.5	79	0	7	1.49	+ 0.79	*	*	*	*
CHANNEL ISLANDS	Valencia	63	44	59.7	50.0	54.5	- 2.3	88	0	6	1.70	+ 0.90	29.1	- 16.4	25	- 15
	Killarney	66	42	61.3	50.8	55.7	- 0.7	96	0	6	1.11	+ 0.43	*	*	*	*
	Foynes	68	46	63.4	48.9	55.7	- 0.8	96	0	4	0.82	+ 0.22	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	48	58.9	51.1	54.7	- 2.7	89	0	5	0.67	+ 0.26	45.0	—	40	—
	Jersey	65	47	60.7	50.7	55.4	- 3.7	94	0	4	0.40	- 0.04	36.2	- 21.2	32	- 19

Stations marked $\mathcal{S}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine

Recorders are in use.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

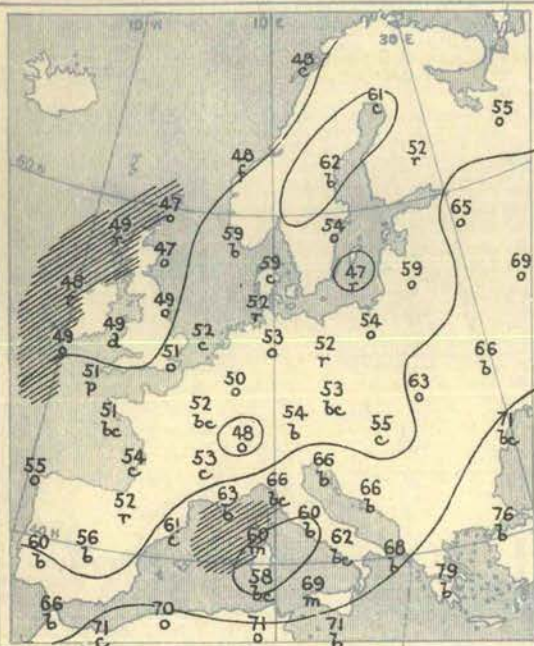
For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 15th June.

Temperature and Weather.

8 a.m.

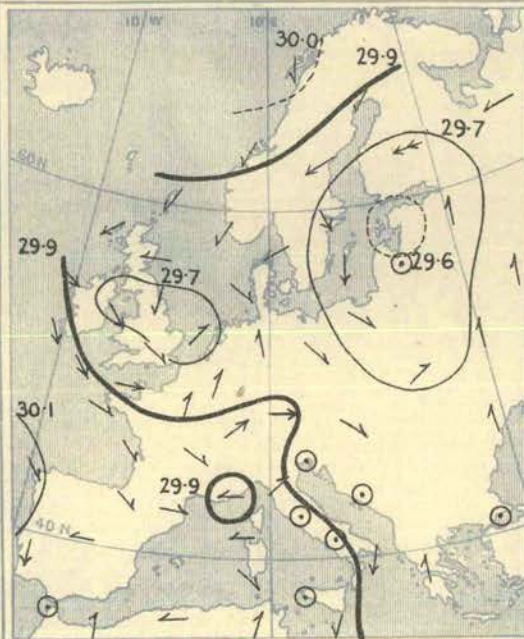


Weather in morning cloudy or dull in most regions, with rain at some of our own stations, as well as at Biarritz, Wisby, Kuopio, and many parts of central Europe. Fine in Spain, Italy, and the south-eastern countries. Rain occurring during day in almost all parts of our Islands, France, Germany and Austria, and also in some Russian and Swedish localities. Thunderstorm experienced at Cuxhaven.

Temperature changed little as a whole, but fallen over central Europe, and risen over the north of Sweden and the south of Russia. Readings at 8 a.m. ranging from 79° at Athens, 70° in the south of Russia and in most parts of Algeria, 69° at Moscow, 66° on the shores of the Adriatic, and 62° at Hernösand, to below 50° in many parts of our Islands and France, and also on the west coast of Norway and at Wisby. Maxima during day not exceeding 65° in many parts of our Islands, and below 60° in several departments of France, but thermometer rising to 68° at Hernösand, 70° at Skudesnaes, 72° at St. Petersburg, 77° at Madrid, 78° at Cagliari, and to 91° at Athens and Constantinople.

Barometer and Wind.

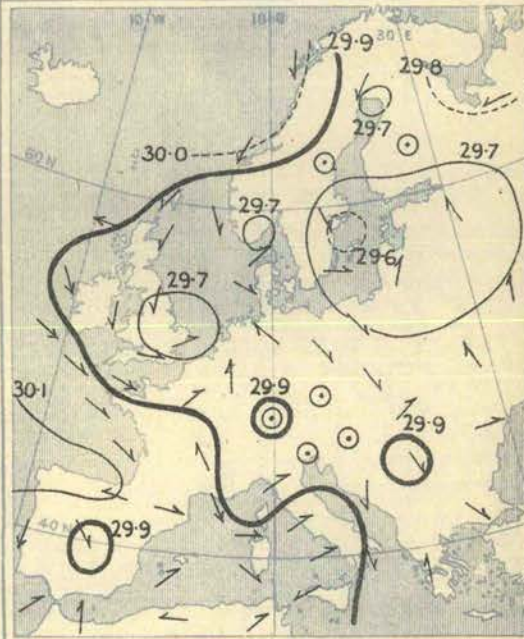
8 a.m.



Wind at 8 a.m. showing three distinct cyclonic circulations—one over the United Kingdom, another in the neighbourhood of the Baltic and Gulf of Finland, and a third over the Gulf of Genoa. Wind moderate in force generally, but Northerly current fresh or strong in the west of our Islands, and also in the east of Sweden. No great change in direction later, but the Northerly wind becoming less strong in force.

Barometer fallen quickly over the Baltic Provinces and in Finland. Readings at 8 a.m. highest, 30.1 ins. off the north-west coast of Spain; 30.0 ins. in the extreme north of Norway. Lowest, 29.5 ins. and less in a disturbance over the Baltic Provinces; 29.7 ins. and less in another system over the United Kingdom, and below 29.9 ins. in the south-east of France and the Gulf of Bothnia. Very little change as a whole later, but a cyclonic system forming over central Spain.

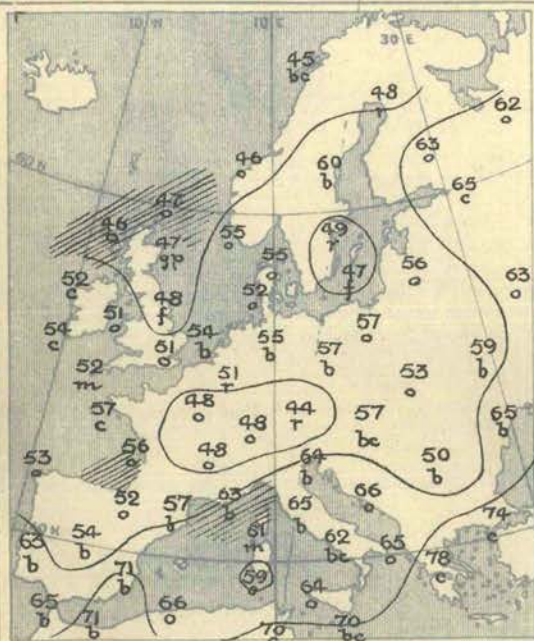
6 p.m.



Monday, 16th June.

Temperature and Weather.

8 a.m.

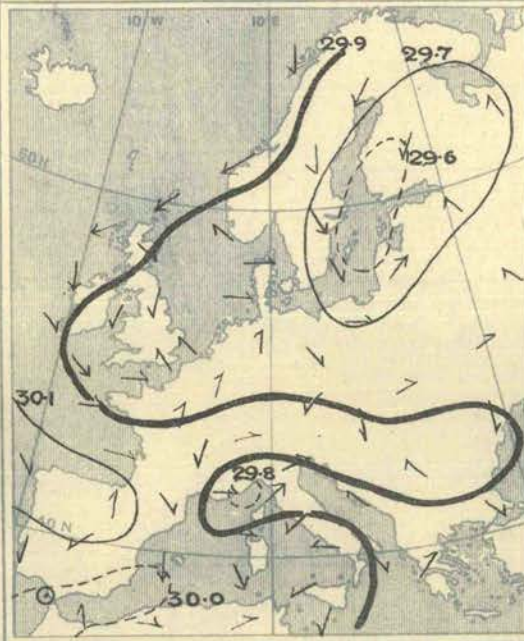


Weather in morning cloudy or dull over nearly the whole of the northern half of our area, with rain in some parts of our Islands and Sweden, and also at Brussels, Warsaw and Munich. Fine in most southern regions. Rain falling subsequently over northern and central Russia, in the north of Italy, and at many Austrian and German stations, as well as in the north of France, the Netherlands and all the more southern districts of Great Britain. A thunderstorm occurring at Lésina.

Temperature fallen over most parts of Russia, and at Munich and Lemberg, risen at Kuopio and Archangel. Morning readings highest, 78° at Athens, 74° at Constantinople, 71° at Nemours, and 70° at Malta; 65° at St. Petersburg and 62° at Archangel. Lowest, 44° at Munich, 45° at Bodö, 46° in the north of Scotland, 45° at Paris, 50° at Hernösand, and 52° at Biarritz. Rising during day to 60° in London, to 64° at Haparanda, to about 72° at Berlin and in the Riviera, 75° at St. Petersburg, 81° at San Fernando and Cagliari, 82° at Nemours and Aumale, and to 86° at Athens. Remaining below 50° at several of our own northern and north-eastern stations, and below 60° at Paris.

Barometer and Wind.

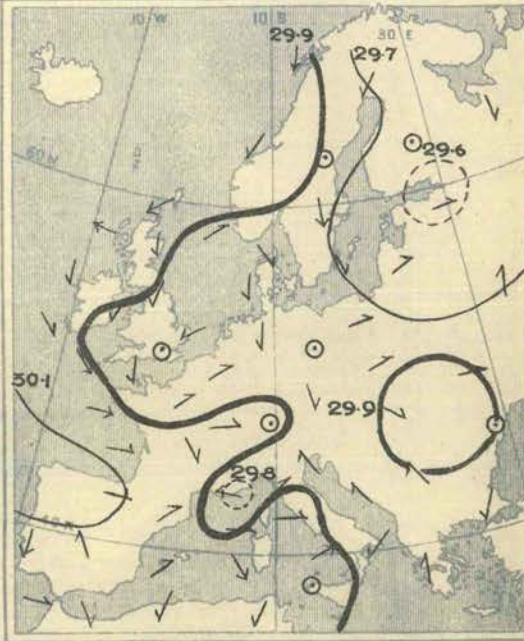
8 a.m.



Wind in morning again showing three cyclonic circulations over the same areas as on the preceding day, and the Northerly currents again blowing freshly or strongly on our north-western coasts and at Stockholm. No very decided change during day, but a feeble anticyclonic movement setting in over Hungary and the adjoining portion of Russia.

Barometer fallen briskly in the neighbourhood of the White Sea, risen somewhat in most other regions. Readings at 8 a.m. highest, 30.1 ins. and upwards over the northern half of Spain, and above 30.0 ins. to the northward of Scotland. Lowest, below 29.6 ins. in an elongated disturbance over the Gulf of Bothnia and Finland, and below 29.8 ins. in a large shallow area over the North Sea and England, as well as in a small system near Nice. Northern disturbance moving eastwards later, and an anticyclone of little energy forming over the south-west of Russia and Hungary.

6 p.m.



Tuesday, 17th June.

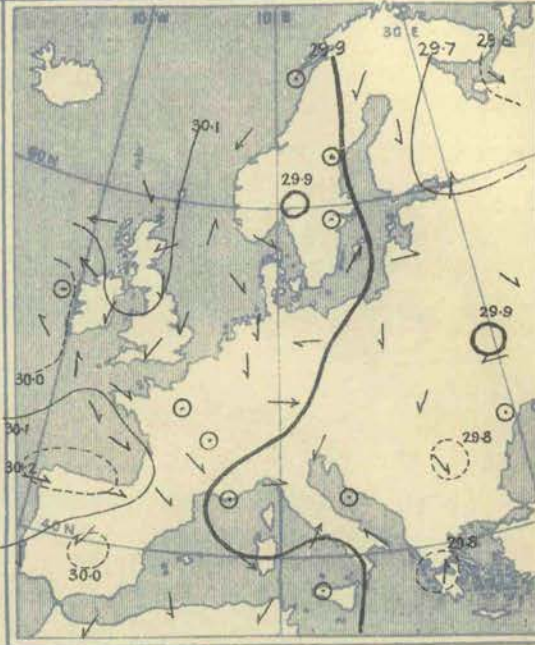
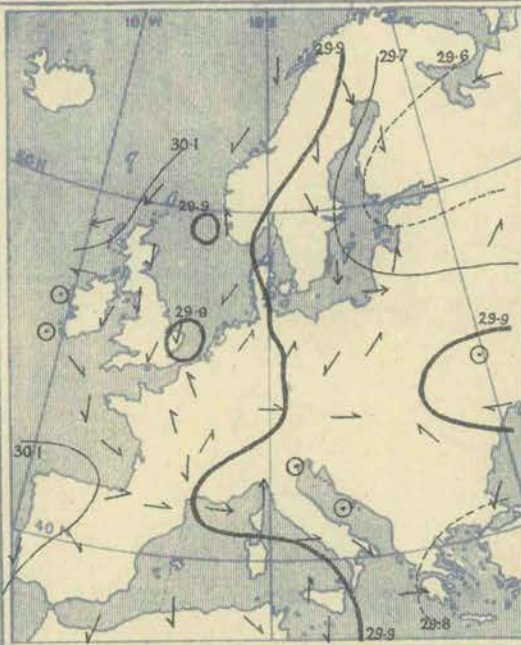
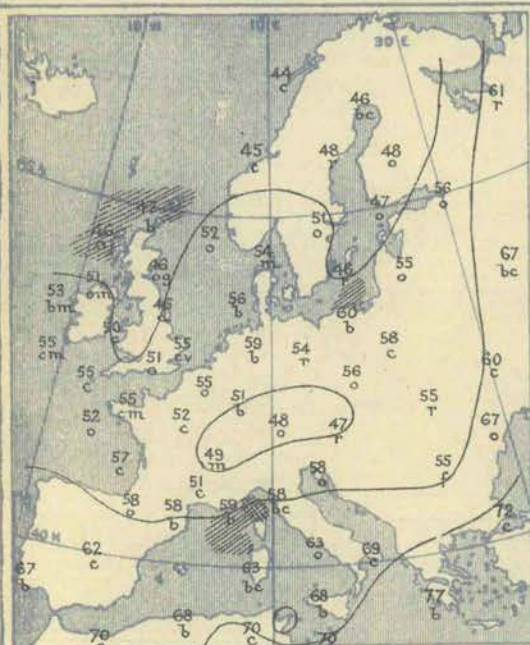
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull in nearly all places, but fine and bright on the coast of Germany, and also in the Riviera and Greece. Rainy over central England, the Gulf of Bothnia, at Archangel, Bilbao, Berlin, and Buda-Pesth. Slight rain falling later in various parts of our Islands and France, and more considerable quantities over Germany, Austria-Hungary, northern Italy, and Finland—as much as 0.65 in. at Breslau, and 1.0 in. at Lésina.

Temperature fallen quickly over Finland and the north of Sweden, changed little and irregularly in other countries. Readings at 8 a.m. highest, 77° or 76° in Greece, 72° at Constantinople, 70° at Malta, La Calle and Nemours, 69° at Brindisi, and 67° on the Portuguese coast and at Moscow. Lowest, 44° at Bodø, 46° or 47° over our own northern districts, 47° at Buda-Pesth, 49° at Limoges and over central England, and 51° at Cape Sicie. Not rising above 64° in any part of our Islands during day, and only touching 50° at Shields. Maxima in the more southern regions ranging from 62° at Paris, and about 70° in the Riviera and at Trieste, to between 72° and 80° at the stations in southern Italy, 84° at Madrid, and to 86° at Athens.

Wind in morning light and variable or Easterly in Ireland, but mainly Northerly over the other parts of north-western Europe, and strong to a gale in force over the Gulf of Bothnia. Light and cyclonic over Finland and northern Russia, and cyclonic, moderate to strong, in the neighbourhood of the Gulf of Genoa. Light and anticyclonic over the south of Russia. Northerly current decreasing in force during day, and entirely dying out in most countries. No other important change.

Barometer at 8 a.m. highest, 30.1 ins. and upwards, (1) off the north-west of Scotland, and (2) over the western parts of the Spanish Peninsula. Lowest, 29.3 ins. in a shallow disturbance over northern Russia, and below 29.8 ins. over the extreme south-east of Europe. Below 29.9 ins. in three small disturbances—one near Skudenes, another between Norfolk and Holland, and a third over the Riviera and its vicinity. Northern high pressure moving southwards later, and that over Spain moving northwards. Disturbances travelling eastwards generally, and a new one forming over central Spain.

Wednesday, 18th June.

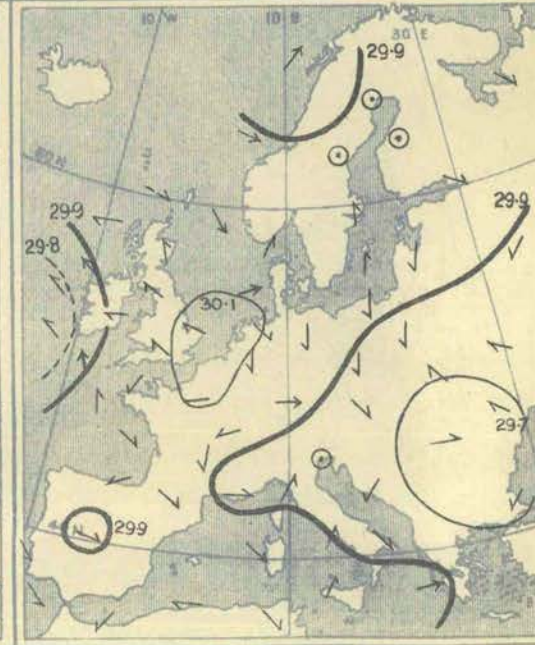
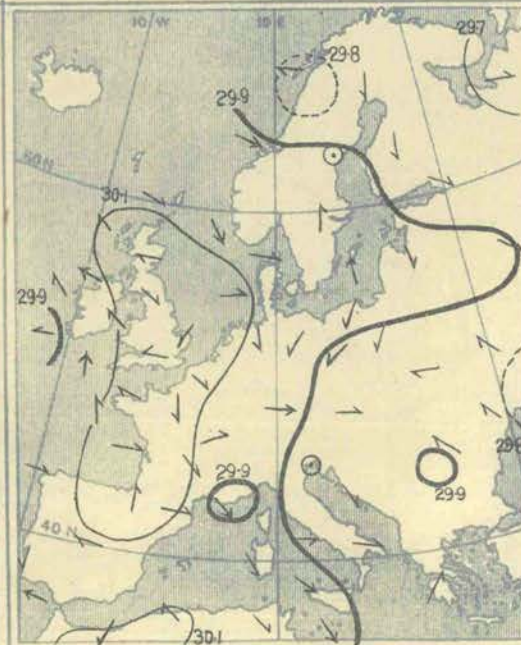
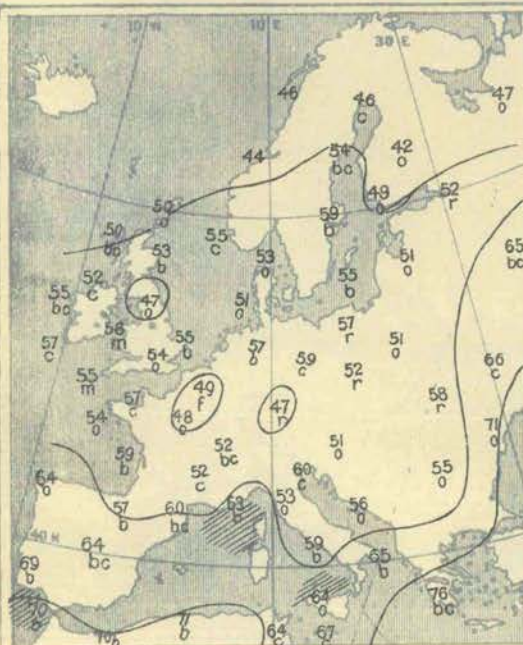
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over Sweden, the south-west and south of France, Spain, Italy, and Greece; cloudy or dull elsewhere with rain in the south of Ireland, and also at some German and Austrian stations. Rain occurring later over the west of our Islands generally (0.36 in. at Valencia), as well as in most central regions of Europe—as much as 0.9 in. at Warsaw, and 1.1 ins. at Hermannstadt.

Temperature fallen in most countries, but risen over Sweden and at most of our own stations. Readings at 8 a.m. ranging from 76° at Athens, 70° or 71° in Algeria, 71° at Odessa, and 65° or 66° over central and southern Russia generally, to 51° at Limoges, Liverpool, and Nairn, 48° at Paris, 47° at Munich and Archangel, 46° in the north of Scandinavia, and to 42° at Kuopio. Rising subsequently to 67° at Loughborough, to between 73° and 76° in the west and south of France and over Italy, to 86° at San Fernando, 90° at Madrid, and 91° at Constantinople. Not exceeding 53° at Shields and 50° at Munich.

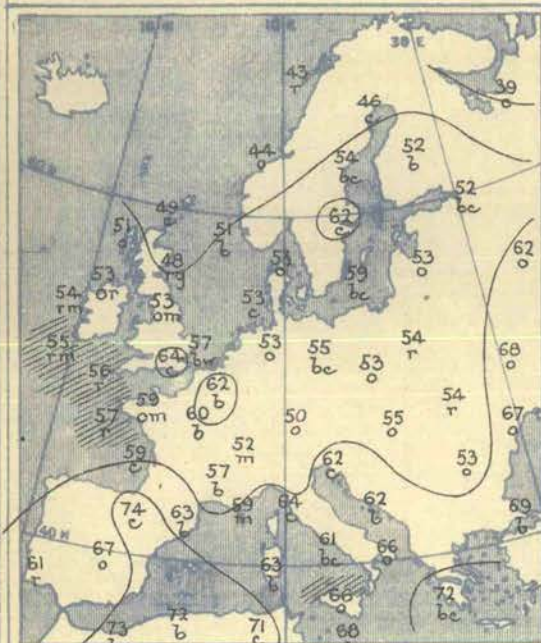
Wind in morning Easterly or South-Easterly over the United Kingdom, and light or moderate in force. Two separate cyclonic circulations of little strength shown over northern Europe, and two others over the southern and south-eastern countries. No important change during day, but a cyclonic circulation setting in over central Spain by evening.

Barometer risen somewhat in most regions, but fallen in the extreme western and north-western localities, as well as over southern Russia. Readings at 8 a.m. highest, 30.1 ins. and upwards, in an irregularly shaped area embracing the major portions of Great Britain and the North Sea, the Netherlands, France, the north of Spain, and the Bay of Biscay. Lowest, 29.7 ins. and less over the White Sea and in the neighbourhood of Kharkov; below 29.8 ins. in a cyclonic system over the north of Norway, and in another covering the greater part of Hungary and the Balkan Peninsula; below 29.9 ins. over the Gulf of Genoa, and also over the south-west of Ireland. Irish disturbance extending eastwards later, and anticyclonic area becoming reduced in size. Another small low-pressure system appearing over Spain. Northern depressions dispersing or moving from our area.

Thursday, 19th June.

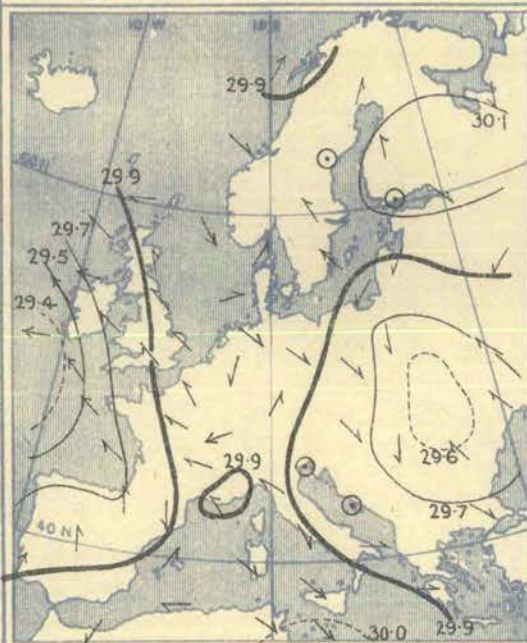
Temperature and Weather.

8 a.m.

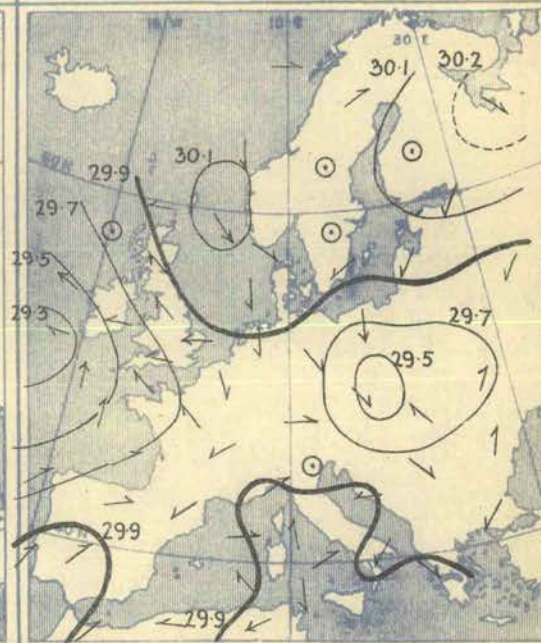


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull, with rain in places in the west and north of our Islands, and also along the Atlantic seaboard of Europe generally. Fine and bright in most other regions, but cloudy or dull, with some rain, in some German and Austrian districts. Rain falling later at all our western and southern stations, over France, Germany, Austria Hungary and the neighbouring parts of Russia, as well as at a few Spanish stations; as much as 3.0 ins. at Cracow.

Temperature risen several degrees in most localities. Readings at 8 a.m. ranging from 75° at Nicolaieff and Palma, 74° at Biarritz, and between 70° and 73° in Greece and most parts of Algeria, to 64° in London, 55° in many central European localities, 44° or 43° in the north-west of Norway and to 39° at Archangel. Rising later to 70° at Loughborough, 73° in London and at many French and German stations, to 81° at Sanguinaire, 84° at Algiers, 86° at Constantinople, and to 90° at Aumale. Remaining below 60° at most of our own coast stations.

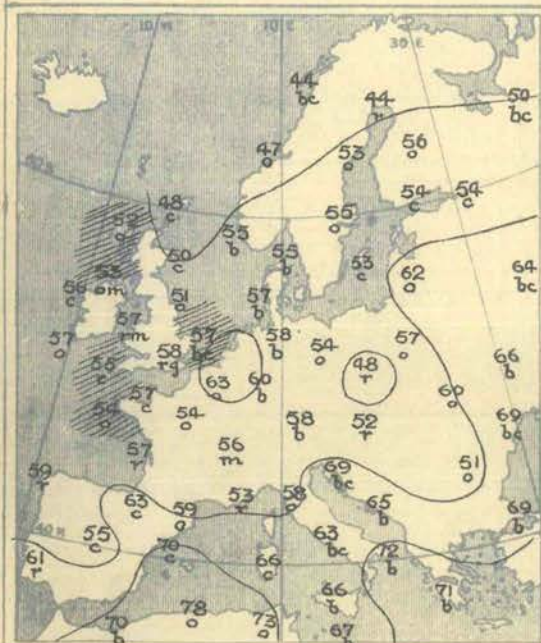
Wind in morning Southerly in the Iberian Peninsula; South-Easterly over France and the United Kingdom, and strong in force at our southern and western stations. A complete cyclonic circulation of light or moderate winds over Hungary and its neighbourhood. Strong from South-West in the north of Norway, and light and variable over southern Europe and the Mediterranean. Wind backing to East and increasing in force over the east of England. No important change elsewhere.

Barometer risen over the north and extreme east of Europe, fallen in most other districts. Readings at 8 a.m. highest 30.1 ins. and upwards in an anticyclone over the northern parts of Russia. Lowest, 29.4 ins. and less, in a disturbance off the south-west of Ireland, below 29.6 ins. in another system over Hungary, and below 29.9 ins. in two others situated respectively over the Riviera and the extreme north of Norway. Northern anticyclone increasing in height later and areas of comparatively high pressure appearing over Spain and Italy. Hungarian disturbance moving north-westwards, and that off Ireland extending eastwards.

Friday, 20th June.

Temperature and Weather.

8 a.m.

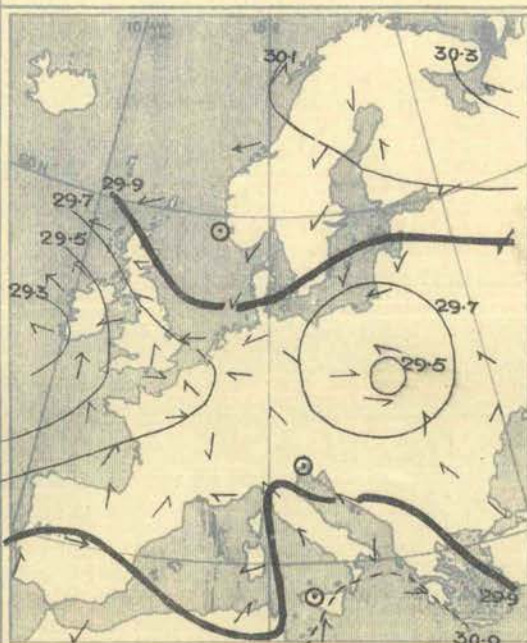


Weather in morning fine and bright in most southern and south-eastern countries; cloudy or dull elsewhere, and rainy in Spain, France, and our Islands, as well as at Haparanda. Heavy rain falling over the north of Italy later and also in some parts of Russia—as much as 1.58 ins. at Kharkov (where a thunderstorm prevailed), and 1.31 ins. at Pesaro. Slighter amounts experienced in most other regions.

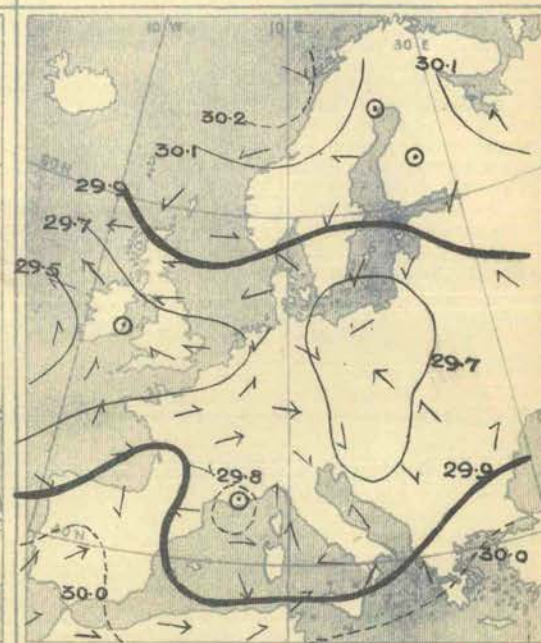
Temperature fallen over France, Spain, and the United Kingdom, as well as in Sweden and Austria, risen in most other regions. Readings at 8 a.m. ranging from 78° at Algiers, and from between 66° and 71° at many stations on the shores of the Mediterranean, to 60° at Aberdeen and Archangel, 48° at Breslau, and 44° at Bodö and Haparanda. No higher than 58° at Nice. Subsequently rising to between 53° and 65° over the United Kingdom, to 79° at Perpignan and Palermo, 81° at Athens, 82° at Trieste, to 90° at Oran and Aumale, and to 97° at Tunis.

Barometer and Wind.

8 a.m.



6 p.m.



Wind in morning moderate to fresh from South-West over France and Spain, and moderate to strong from East and South-East over the United Kingdom and the North Sea. Mainly Easterly or North-Easterly over northern Europe, and strong at Stockholm. A complete but feeble cyclonic circulation prevailing over central Europe, and light variable airs over the Mediterranean. No great change as a whole during day, but two separate cyclonic movements springing up over southern Europe—one over the Gulf of Genoa and the other over the south of Italy.

Barometer fallen over our Islands, France, and central Europe, risen in most other localities. Readings at 8 a.m. highest, 30.3 ins. at Archangel, and relatively high in some parts of southern Europe. Lowest, 29.3 ins. and less in a disturbance off the south-west of Ireland, and below 29.5 ins. in the centre of another system lying between Cracow and Warsaw. Barometer falling at Archangel during day, and pressure becoming highest in the north-west of Norway. Two small minima appearing over southern Europe and the Mediterranean.

Saturday, 21st June.

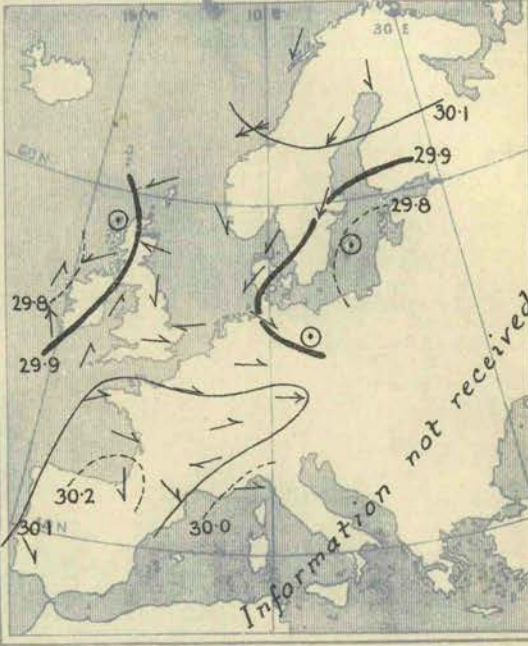
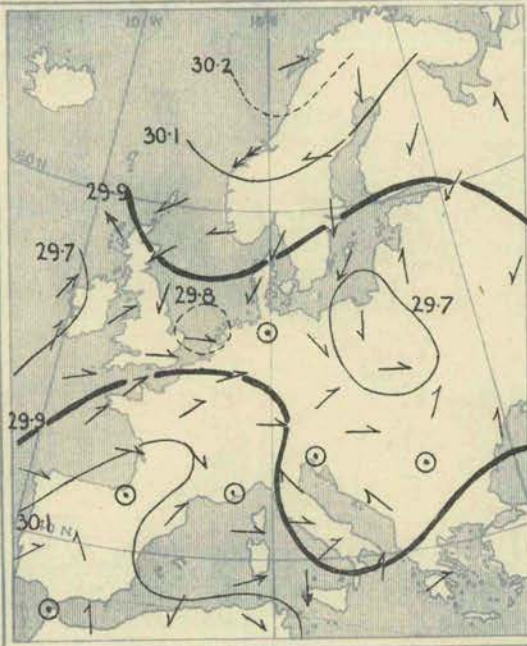
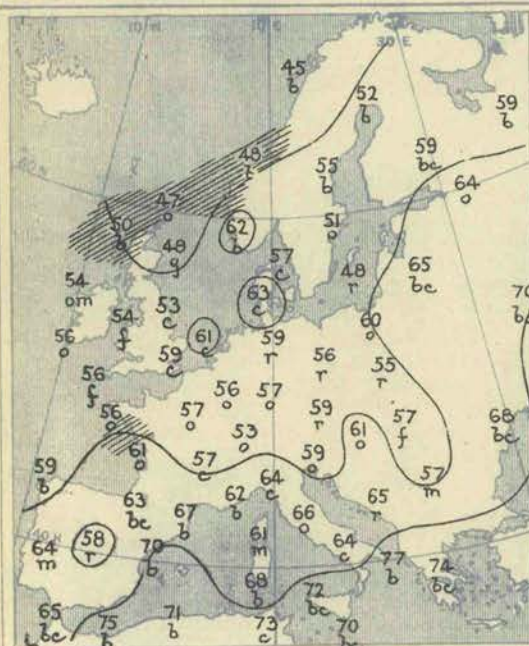
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over Spain, and also over the extreme north of Europe; changeable and unsettled over the intermediate regions, misty and damp in Ireland, dull, foggy and rainy over Germany. Some rain later in the west of Ireland, at Holyhead and Leth, and showers very locally in the south-eastern parts of England; distant thunder heard in the south of London.

Temperature in morning highest 77° at Brindisi, and above 70° over Greece, Sicily and the north of Africa, 70° at Moscow; above 60° over the south coast of France, also near Riga, at St. Petersburg and Uleaborg, as well as at Yarmouth. Lowest, 45° at Bodø, 47° at Sumburgh Head, 54° at several of our western stations, 53° at Swinemünde, 55° at Berlin. Rising later to 60°, or more, in many parts of our Islands, 70° in London, and more than that at several continental stations; touching 81° at Perpignan.

Wind Northerly to Easterly over the northern parts of Europe, Westerly and variable in the south, and of no great strength anywhere; South-Westerly to South-Easterly over the west and north-west parts of our Islands. North-Easterly to Northerly and North-Westerly over the Baltic and north Germany. A separate (small) cyclonic circulation over the southern part of the North Sea, and another over the Riviera. No decided change in our Islands later.

Barometer in morning highest, (1) 30.27 ins. at Bodø, and exceeding 30.1 ins. over all the northern parts of Scandinavia, (2) 30.1 ins. and more over all the Spanish Peninsula and the south-west of France, as well as over the north of Africa. Lowest 29.7 ins., and less both off the west of Ireland and the north-east of Germany; 29.8 ins. and less in a small depression off the Wash; other small secondaries noticed about. Rising later throughout north-western Europe, falling slightly at Bodø and Stockholm.

GENERAL NOTES.

At the commencement of the week the barometer was highest in an anticyclone lying off the north-west of Spain, and lowest in a shallow cyclonic area over the Baltic Provinces; another shallow disturbance being reported over the northern and eastern parts of Great Britain. In the western and northern countries the weather was, therefore, cloudy and unsettled, with rain in many places, but over southern Europe it was mostly fine and warm.

During the 15th and 16th the cyclonic system over the Baltic Provinces moved away to the north-eastward, while the disturbance over our own Islands gradually dispersed. The anticyclone off the Spanish coasts now spread northwards, while a new high pressure area spread from the northward over the northern parts of Great Britain, the two systems ultimately uniting and occasioning a rather decided improvement in the weather over Great Britain and France. Later on the combined anticyclone moved north eastwards to northern Europe, while

low pressure systems appeared respectively off our own south-west coasts and over south-eastern Europe. The disturbance in the former region remained for some time almost stationary, but spread northwards and eastwards over the greater part of the United Kingdom, and caused rain in nearly all districts. The depression in the south-east moved northwards over Poland and the Baltic Provinces, and occasioned considerable quantities of rain in Austria and Germany.

At the close of the week the disturbance off our south-west coasts passed away in a north-westerly direction over the Atlantic, while the depression over central Europe began to disperse, a gradual but rather decided improvement in the weather taking place over western Europe generally.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and ○ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, and the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; at 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 146.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESS	49.7	+ 15.0	39	+ 12	THURCASTON	24.0	- 16.3	21	- 14	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	27.6	- 10.3	22	- 8	MARGATE	31.2	- 12.0	27	- 11	SOUTHPORT	15.8	—	13	—
EDINBURGH	6.7	- 27.6	6	- 23	BROADSTAIRS	31.1	—	27	—	RHYL	18.0	—	15	—
MORPETH	16.8	—	14	—	EASTBOURNE	38.5	- 12.9	34	- 11	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	11.3	—	9	—	BRIGHTON	38.7	- 13.7	34	- 12	ABERDOVEY	12.0†	—	10†	—
YORK	19.2	- 20.3	16	- 13	WORTHING	43.0	—	35	—	TENEY	18.0	- 36.2	16	- 31
LOWESTOFT	59.3	—	52	—	BOGNOR	48.0†	—	42†	—	NEWQUAY	21.5	31.2	19	- 28
DUNMOW	26.5	—	23	—	WATERGATE	25.9	—	23	—	TORQUAY	20.2	35.1	18	- 31
HOLLESLEY BAY	42.6	—	37	—	WESTBOURNE	57.8†	+ 7.9	51†	+ 7	GUERNSEY	34.7†	24.3	31†	- 22
SHEFFIELD	14.8	—	13	—	VENTNOR HOSPITAL	36.5	- 9.2	32	- 8					
WORKSOP	21.8	- 15.6	19	- 13										

† The values at Bognor, Westbourne, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; W. N. SHAW, F.R.S., SECRETARY.

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Vol. XIX. No. 26.]
Fourth Series.

WEEK ENDING SATURDAY, JUNE 28TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 152.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	84	41	68.2	49.9	58.4	5 above	Day-deg. 115	Day-deg. +38	Day-deg. 0	Day-deg. 0	Day-deg. 602	Day-deg. -110	Day-deg. 660	Day-deg. +91
	1. SCOTLAND, EAST	83	39	69.4	48.3	58.1	3 above	113	+21	0	0	681	-199	727	+109
	2. ENGLAND, N.E.	84	41	68.8	50.5	59.0	2 above	119	+17	0	0	844	-69	522	+13
	3. ENGLAND, EAST	87	47	72.0	52.7	61.7	3 above	138	+23	0	0	1024	-85	516	-41
	4. MIDLAND COUNTIES	86	44	75.8	51.1	62.6	5 above	144	+31	0	0	1031	-101	523	-43
5. ENGLAND, SOUTH	83	42	71.3	54.2	62.1	3 above	141	+19	0	0	1048	-176	358	-55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	83	43	70.7	53.0	61.2	5 above	134	+37	0	0	875	-7	483	+50
	7. ENGLAND, N.W.	84	45	74.0	53.1	62.8	5 above	146	+40	0	0	927	-89	421	+6
	8. ENGLAND, S.W.	84	47	72.1	54.7	62.8	5 above	146	+34	0	0	1072	-104	324	+6
	9. IRELAND, NORTH	80	47	69.3	53.2	60.7	5 above	131	+32	0	0	857	-180	339	-23
	10. IRELAND, SOUTH	81	49	70.6	54.9	62.2	5 above	141	+32	0	0	1101	-126	240	-23
	-CHANNEL ISLANDS-	81	49	68.3	56.3	61.9	3 above	139	+18	0	0	1298	-58	99	-24

DISTRICTS. (See p. 152.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	10ths of in. 3	10ths of in. 5 less	127	+16	22.9	+ 0.5	52	+17	41	+13	633	- 4	23	0
	1. SCOTLAND, EAST	2	1	4 less	104	+11	11.5	- 2.1	54	+15	45	+13	649	- 49	23	- 3
	2. ENGLAND, N.E.	1	less than half	4 less	88	+ 1	10.1	- 0.7	63	+44	58	+37	697	+ 4	30	0
	3. ENGLAND, EAST	1	less than half	5 less	91	+ 2	10.5	- 0.2	91	+45	79	+38	805	- 43	33	- 2
	4. MIDLAND COUNTIES	1	1	4 less	86	+ 2	11.2	- 1.1	82	+41	70	+35	681	- 14	32	0
5. ENGLAND, SOUTH	1	less than half	4 less	85	+ 2	11.6	- 0.5	82	+32	72	+28	812	- 60	24	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	3	4 less	115	+17	22.4	- 0.1	60	+18	50	+14	659	- 75	29	- 3
	7. ENGLAND, N.W.	1	1	5 less	105	+15	13.2	- 1.1	81	+34	69	+28	783*	+ 48	35	+ 2
	8. ENGLAND, S.W.	2	1	5 less	96	+ 3	14.6	- 3.1	72	+19	63	+17	776	- 97	35	- 4
	9. IRELAND, NORTH	2	1	5 less	126*	+20	17.0	+ 1.8	62	+25	53	+22	668	- 35	29	- 2
	10. IRELAND, SOUTH	2	1	5 less	104	+ 4	16.4	- 2.2	61	+20	52	+16	735	- 54	32	- 3
	- CHANNEL ISLANDS-	2	1	3 less	100	+ 4	13.5	- 0.7	65	+14	58	+13	867	-130	38	- 6

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was at first in a showery, unsettled state over the whole Kingdom, but soon improved very materially, and became fine and dry in all districts. On the 26th and 27th scarcely a drop of rain was experienced in any part of the country. Thunderstorms occurred in several parts of Scotland on the 25th, and in the Scilly and Channel Islands on the 28th.

Temperature was above the mean in all districts, the excess varying from 2° in England N.E. to 5° in most of the grazing districts, and also in Scotland N. and the Midland Counties. The highest readings occurred at various times in different localities, but mostly during the latter half of the week, when shade maxima exceeding 80° were recorded in nearly all districts; in the Midland Counties the thermometer rose to 86°, and in England E. (at Cambridge on the 28th) to 87°. The lowest readings occurred mostly on the 22nd, but at some of the northern stations they were reported on the 27th; in Scotland E. the thermometer fell to 39°, and in Scotland N. and England N.E. to 41°, but in Ireland S. and the Channel Islands it did not get below 49°.

Rainfall was considerably less than the mean especially in the eastern and southern parts of England, where the amount was almost inappreciable.

Bright Sunshine was very abundant, more than half the possible amount being recorded in all the English and Irish districts. In England S. there was as much as 72 per cent. of the possible duration, while in England E. there was as much as 79 per cent. The smallest proportion (41 per cent.) was recorded in Scotland N.

Barometer and Wind. At the commencement of the week the barometer was high to the eastward, and low to the westward of our Islands, the winds being chiefly Southerly. On the 23rd, however, a large anticyclone spread from the southward over nearly the whole of western Europe, and as the central portion of the system was situated, as a rule, over or to the eastward of the North Sea, the winds in our Islands were Easterly or South-Easterly. Low pressure systems appeared from time to time off our south-west coasts, and occasioned a considerable freshening of the Easterly wind in the south and south-west; their effect upon the weather was, however, extremely slight. At the close of the week the anticyclone began to give way, and the general appearance became less settled.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°								
O. SCOTLAND, N	Sumburgh Head	63	46	57.9	47.7	52.4	+ 1.8	73	0	1	0.33	- 0.14	*	*	*	*	
	Stornoway	76	46	66.7	49.7	57.6	+ 4.7	109	0	3	0.38	- 0.20	42.0	+ 2.5	34	+ 2	
	Wick	73	45	64.9	47.6	55.7	+ 2.6	96	0	2	0.04	- 0.41	*	*	*	*	
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	
	Glencarron	81	46	73.0	52.1	61.3	+ 7.8	139	0	2	0.36	- 0.84	*	*	*	*	
	Fort Augustus	84	41	74.1	49.2	60.8	+ 5.4	132	0	1	0.03	- 0.54	47.1	+ 18.9	38	+ 15	
1. SCOTLAND, E	Fort William	78	46	72.3	52.8	61.9	+ 6.5	139	0	1	0.38	- 0.60	66.5	+ 28.9	54	+ 23	
	Nairn	83	42	71.4	49.3	59.6	+ 4.2	123	0	3	0.24	- 0.23	*	*	*	*	
	Aberdeen	68	44	63.6	48.6	55.6	+ 0.6	95	0	2	0.07	- 0.41	47.5	+ 5.0	39	+ 5	
	Braemar	78	39	70.6	44.7	56.7	+ 3.5	103	0	0	0.00	- 0.57	*	*	*	*	
	Ochertyre-	80	47	74.3	50.0	61.3	+ 4.5	135	0	1	0.08	- 0.60	*	*	*	*	
	Leith	71	46	64.3	49.7	56.5	- 0.3	102	0	2	0.32	- 0.16	*	*	*	*	
2. ENGLAND, N.E.	Marchmont	77	41	72.0	47.3	58.3	+ 4.0	118	0	2	0.10	- 0.54	77.3	+ 36.6	64	+ 30	
	Alnwick Castle	74	43	69.6	48.9	58.5	+ 3.4	116	0	1	0.05	- 0.45	*	*	*	*	
	Durham	76	41	72.2	48.5	59.5	+ 2.7	123	0	1	0.03	- 0.47	79.2	+ 40.5	167	+ 34	
	Shields	68	46	63.0	50.9	56.5	+ 1.0	102	0	1	0.06	- 0.39	*	*	*	*	
	Scarborough	72	44	64.8	49.3	56.8	+ 0.2	104	0	0	0.00	- 0.52	53.9	—	46	—	
	Spurn Head	72	50	65.9	54.1	59.6	+ 2.5	123	0	1	0.02	- 0.34	*	*	*	*	
3. ENGLAND, E.	Fulbeck (Lincolnshire)	84	45	77.4	50.3	63.2	+ 4.7	148	0	1	0.03	- 0.44	*	*	*	*	
	Hillington	82	48	75.9	52.2	63.2	+ 4.6	148	0	1	0.06	- 0.48	95.9	+ 50.7	82	+ 43	
	Yarmouth-	67	52	65.4	55.0	59.8	+ 2.1	125	0	1	0.01	- 0.47	*	*	*	*	
	Geldeston	76	47	71.0	51.6	60.6	+ 2.5	130	0	0	0.00	- 0.44	87.5	+ 38.9	76	+ 33	
	Cambridge	87	47	78.6	50.3	63.5	+ 4.0	151	0	0	0.00	- 0.50	89.5	+ 43.5	78	+ 37	
	Felixstowe	71	52	67.5	55.9	61.3	+ 3.2	135	0	0	0.00	—	94.0†	—	82†	—	
4. MIDLAND COUNTIES	Rothamsted	80	48	73.5	51.3	61.6	+ 3.2	137	0	1	0.02	- 0.50	89.7	+ 44.2	78	+ 38	
	Harrogate	79	44	72.9	49.5	60.4	+ 4.3	129	0	1	0.07	- 0.58	86.1	—	73	—	
	Bawtry (Hesley Hall)	86	45	79.7	49.7	63.7	+ 5.3	152	0	1	0.01	- 0.53	*	*	*	*	
	Loughborough	85	46	78.6	50.1	63.4	+ 4.1	150	0	1	0.02	- 0.48	*	*	*	*	
	Colly Weston (Stamford)	85	48	77.9	51.4	63.7	+ 4.9	152	0	1	0.06	- 0.41	*	*	*	*	
	Cheadle	80	49	73.8	53.4	62.9	+ 6.5	146	0	1	0.03	- 0.64	*	*	*	*	
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	81	49	74.5	53.5	63.3	+ 5.4	149	0	1	0.90	+ 0.30	77.2	—	67	—	
	Churchstoke	81	47	75.1	51.0	62.2	+ 5.7	141	0	1	0.07	- 0.44	85.3	+ 41.1	73	+ 35	
	Hereford	80	44	74.8	48.9	60.9	+ 1.9	132	0	1	0.09	- 0.39	*	*	*	*	
	Cirencester	82	44	75.3	51.0	62.3	+ 4.6	142	0	1	0.01	- 0.53	83.9	+ 38.3	73	+ 33	
	Oxford	82	49	75.6	52.9	63.5	+ 4.3	151	0	0	0.00	- 0.51	85.1	+ 39.6	74	+ 34	
	London	83	49	77.1	55.0	65.3	+ 4.6	163	0	1	0.01	- 0.46	80.6†	+ 38.4†	70†	+ 33†	
6. SCOTLAND, W.	Swaraton (Alresford)	81	42	75.0	49.9	61.6	+ 4.3	137	0	1	0.03	- 0.47	*	*	*	*	
	Dungeness	70	51	65.6	55.0	59.9	+ 1.2	125	0	0	0.00	- 0.32	91.4	—	80	—	
	Hastings (St. Leonards)	79	50	70.5	57.1	63.3	+ 4.5	149	0	1	0.01	- 0.41	94.7	+ 42.1	83	+ 36	
	Southampton	83	51	75.9	54.6	64.5	+ 4.0	158	0	2	0.06	- 0.40	79.7	+ 29.5	70	+ 26	
	Portland Bill	67	49	62.6	54.4	58.2	+ 0.2	113	0	1	0.05	—	*	*	*	*	
	Shaftesbury	78	48	72.1	53.4	62.1	+ 4.7	141	0	1	0.05	- 0.50	*	*	*	*	
7. ENGLAND, N.W.	Landale (Loch Sunart)	88	49	75.2	56.1	65.0	+ 8.9	161	0	3	0.33	- 0.67	*	*	*	*	
	Glasgow	82	46	72.1	51.6	61.1	+ 4.9	124	0	2	0.18	- 0.50	55.9	+ 19.9	46	+ 16	
	Cally	76	43	68.2	51.3	59.2	+ 3.3	120	0	1	0.60	- 0.17	*	*	*	*	
	Douglas (Isle of Man)	76	51	67.1	52.3	59.5	+ 3.7	123	0	2	0.22	- 0.36	64.3	+ 15.5	54	+ 12	
	Newton Reigny	82	45	75.4	50.0	61.8	+ 6.2	139	0	1	0.15	—	80.4	—	68	—	
	Stonyhurst	81	48	73.5	52.9	62.5	+ 5.4	144	0	1	0.11	- 0.69	77.7	+ 33.9	66	+ 29	
8. ENGLAND, S.W.	Blackpool	83	48	75.1	52.3	62.9	+ 5.1	146	0	1	0.19	- 0.36	70.4	+ 26.6	60	+ 22	
	Manchester (Prestwich)	84	49	76.3	52.5	63.6	+ 6.5	151	0	1	0.13	- 0.60	79.3	—	67	—	
	Liverpool Obsy. (Bidston)	81	50	73.3	54.7	63.4	+ 5.0	150	0	1	0.20	- 0.32	82.1	—	70	—	
	Chester	82	47	74.7	52.6	62.9	+ 4.4	146	0	1	0.08	—	*	*	*	*	
	Llandudno	82	52	73.8	56.2	64.4	+ 6.0	157	0	2	0.16	- 0.32	84.9	+ 40.3	73	+ 34	
	Holyhead	77	51	69.9	53.4	61.1	+ 4.0	134	0	1	0.11	- 0.37	*	*	*	*	
9. IRELAND, N.	Llandoverly	83	51	76.9	53.6	64.4	+ 6.6	157	0	2	0.12	- 0.58	*	*	*	*	
	Pembroke	76	51	67.0	54.3	60.2	+ 3.4	127	0	1	0.26	- 0.21	59.4	+ 7.4	52	+ 6	
	Clifton	84	51	77.2	55.1	65.4	+ 6.4	164	0	1	0.01	- 0.53	*	*	*	*	
	Bath	82	47	75.7	53.7	63.9	+ 4.4	153	0	1	0.03	—	83.6	—	73	—	
	Arlington (N. Devon)	80	50	72.7	55.6	63.6	+ 6.8	151	0	1	0.09	- 0.71	*	*	*	*	
	Cullompton	82	47	75.1	52.8	63.2	+ 4.2	148	0	2	0.08	- 0.46	80.3	+ 34.8	70	+ 30	
10. IRELAND, S.	Falmouth	89	53	84.0	55.7	59.6	+ 1.1	123	0	3	0.12	- 0.48	61.3	+ 8.2	55	+ 7	
	Plymouth	75	53	68.3	57.1	62.3	+ 2.7	142	0	1	0.20	- 0.30	72.6	+ 23.0	64	+ 20	
	Malin Head	74	49	66.6	54.1	59.9	+ 4.3	125	0	2	0.07	- 0.49	*	*	*	*	
	Edenfel (Omagh)	80	52	73.7	53.9	63.1	+ 7.4	148	0	1	0.02	- 0.67	*	*	*	*	
	Blacksod Point	74	51	67.0	53.9	60.0	+ 3.5	126	0	4	0.32	- 0.32	*	*	*	*	
	Markree Castle	78	49	73.5	53.8	63.0	+ 7.4	147	0	3	0.09	- 0.67	60.3	+ 24.8	52	+ 21	
CHANNEL ISLANDS	Armagh	76	49	70.3	53.0	61.1	+ 4.6	134	0	2	0.13	- 0.47	63.4	+ 25.9	54	+ 22	
	Donaghadee	71	47	64.7	50.6	57.2	+ 1.0	106	0	1	0.08	- 0.46	*	*	*	*	
	Dublin	75	53	71.6	55.5	63.0	+ 4.7	147	0	1	0.07	- 0.40	77.0	+ 34.0	66	+ 29	
	Parsonstown	80	50	73.7	54.7	63.5	+ 6.5	151	0	1	0.02	- 0.58	54.5	+ 17.2	47	+ 15	
	Kilkenny	77	51	70.0	53.4	61.1	+ 3.6	134	0	1	0.06	- 0.49	*	*	*	*	
	Roche's Point	74	52	64.7	54.7	59.4	+ 1.1	122	0	3	0.16	- 0.54	*	*	*	*	
CHANNEL ISLANDS	Valencia	81	52	71.6	57.1	63.9	+ 6.6	153	0	5	0.40	- 0.42	51.0	+ 8.2	44	+ 7	
	Killarney	79	49	69.5	55.3	61.9	+ 4.9	139	0	3	0.20	- 0.50	*	*	*	*	
	Foynes	79	49	73.4	53.4	62.7	+ 5.8	145	0	2	0.10	- 0.52	*	*	*	*	
	Scilly (St. Mary's)	68	54	62.3	55.6	58.7	+ 0.5	117	0	3	0.24	- 0.20	51.2	—	45	—	
	Jersey	81	49	74.3	56.9	65.0	+ 5.1	161	0	1	0.03	- 0.42	76.9	+ 20.3	69	+ 18	

Stations marked *fi* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Records are in use.

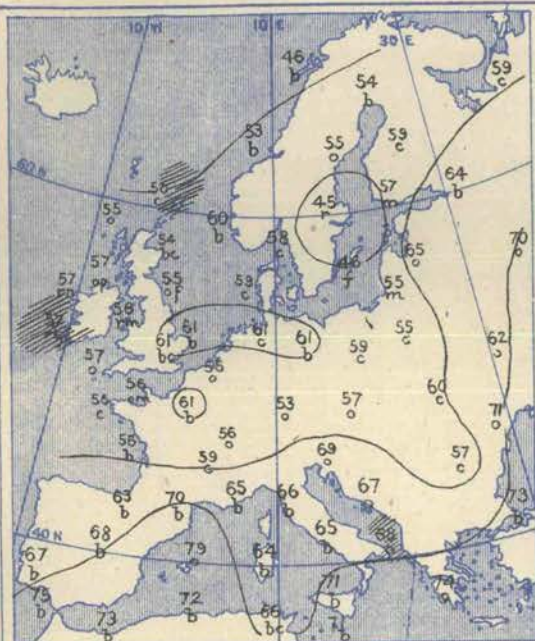
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 22nd June.

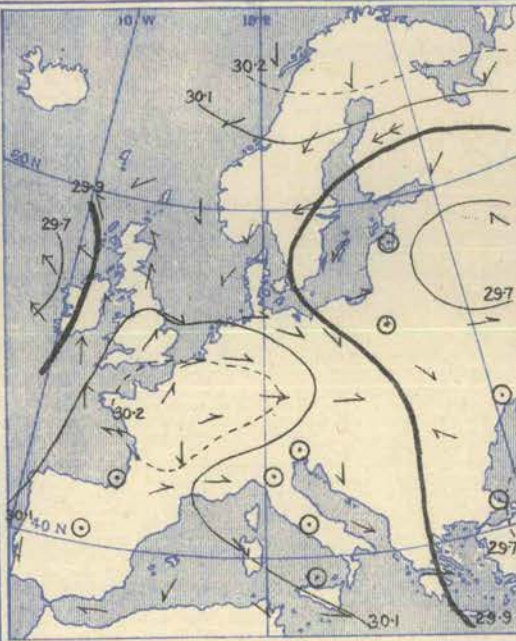
Temperature and Weather.

8 a.m.

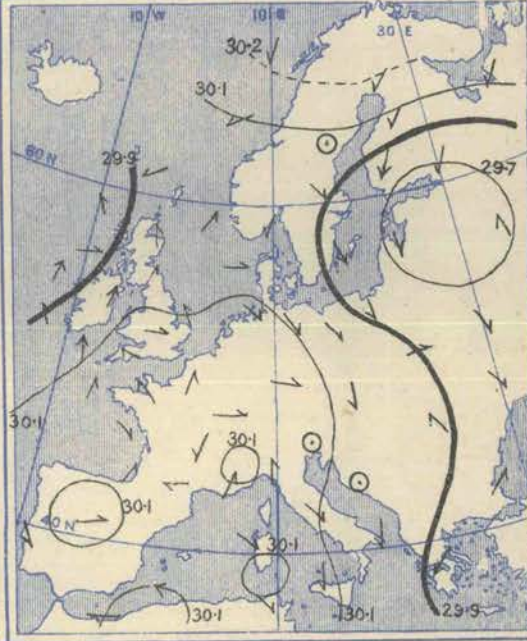


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright generally, but unsettled and rainy on our western coasts, the south of Sweden, and on the north German coast, cloudy or dull at most Russian stations. Rain experienced subsequently in almost all parts of the United Kingdom, and also in many central European districts; amounts not large as a rule, but as much as 1.0 in. at Hermannstadt.

Temperature at 8 a.m. highest, 70° at Palma, 75° at San Fernando, 74° at Patras, 71° at Odessa, 70° at Moscow, and between 65° and 70° over southern Europe generally. Lowest, 45° at Stockholm, 46° at Bodö, 52° at Limoges, 53° at Munich, and 54° at Pembroke. Rising during day to about 70° in some parts of Great Britain, to between 75° and 80° in most districts in southern Europe, to 91° at San Fernando, 94° at Madrid, and 97° at Aumale. Not exceeding 55° at Pembroke.

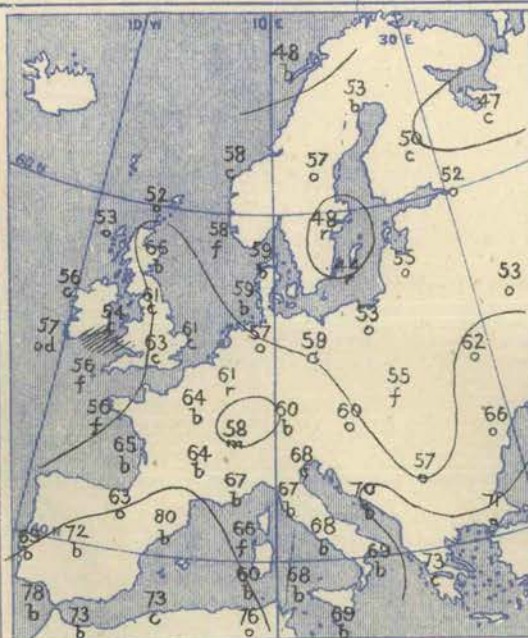
Wind in morning fresh or strong from South-East or South at our own western stations, light and anticyclonic over France and the adjacent portions of Europe, and cyclonic over eastern and northern Europe. North-Easterly wind of latter circulation strong to a gale over Finland. No decided or general change either in force or direction during day.

Barometer fallen over Russia, risen elsewhere. Readings at 8 a.m. highest, above 30.2 ins. in an anticyclone lying over France and western Germany, and also in another system over Lapland. Lowest, 29.7 ins. and less in a disturbance over central Russia and also off the west of Ireland. No important modification in the general distribution of pressure during day, but shallow cyclonic disturbances forming in various parts of southern Europe and the Mediterranean.

Monday, 23rd June.

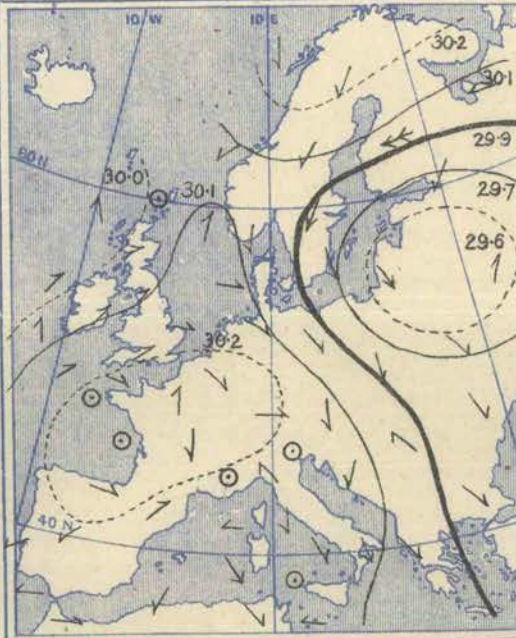
Temperature and Weather.

8 a.m.

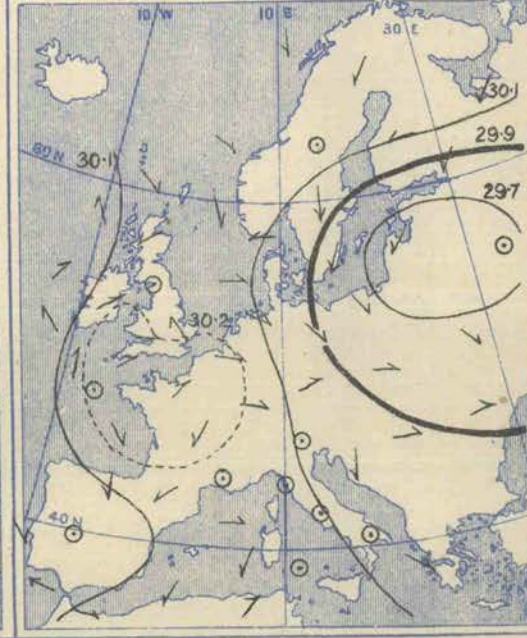


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over Russia and central Europe, fine in most other regions, but drizzling rain falling at Valencia and Jersey, and fog prevailing in some parts of the English Channel. Slight rain later at some of our extreme western and north-western stations, and heavier falls in Austria, Hungary, at Munich, and in the south of Sweden.

Temperature fallen quickly over Russia and Finland, risen in most other countries. Readings at 8 a.m. highest, 80° at Barcelona, 75° at San Fernando, and about 70° or above it in the extreme south generally. Lowest, 44° at Wisby, 47° at Archangel, 48° at Bodö, 50° at Memel, 52° at Warsaw. Rising during day to above 70° over the inland parts of Great Britain, to above 80° at many French stations, to 93° at Aumale, and to 99° at Madrid. Remaining below 60° on some parts of our own western coasts and at Cracow.

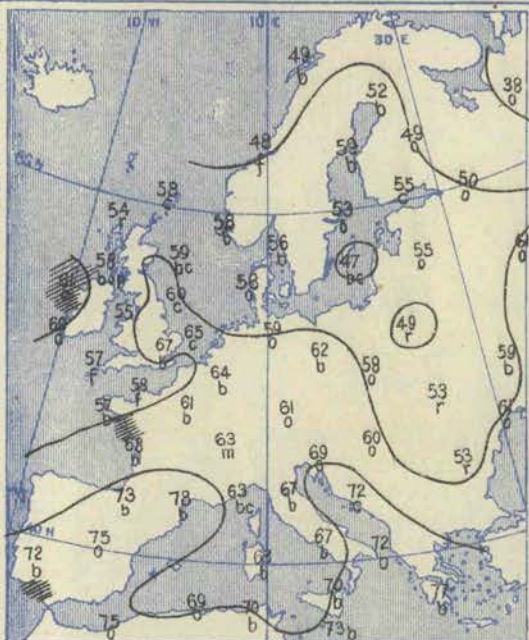
Wind cyclonic over Russia and eastern Europe generally, and anticyclonic over the western countries. Light or moderate in force as a whole, but Easterly current blowing a gale at Kuopio, and Northerly current equally strong in the south of Sweden. Very little change in direction subsequently, but Easterly gale in Finland and Northerly gale in Sweden subsiding.

Barometer risen somewhat in most countries, fallen a little in Russia. Readings at 8 a.m. highest, 30.2 ins. and upwards, (1) over the Bay of Biscay, France, and the west of Germany, and (2) in the north of Scandinavia and Lapland. Lowest, 29.6 ins. and less in a disturbance over central and western Russia; below 30.0 ins. over our extreme north-west coasts. Russian low-pressure system beginning to fill up during day, and southern anticyclone extending northwards to the north-west of England.

Tuesday, 24th June.

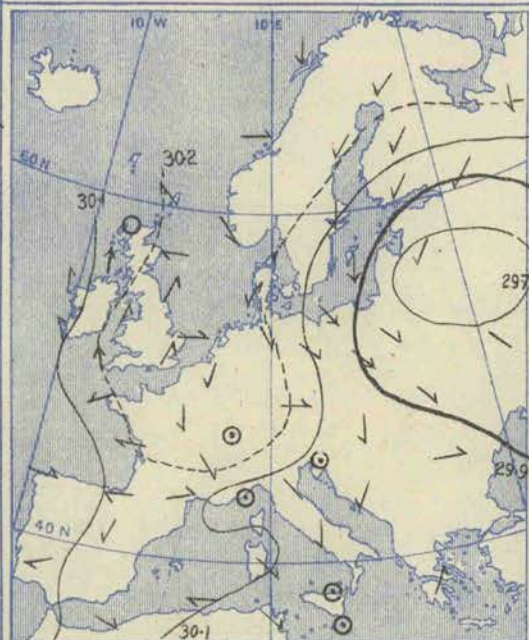
Temperature and Weather.

8 a.m.

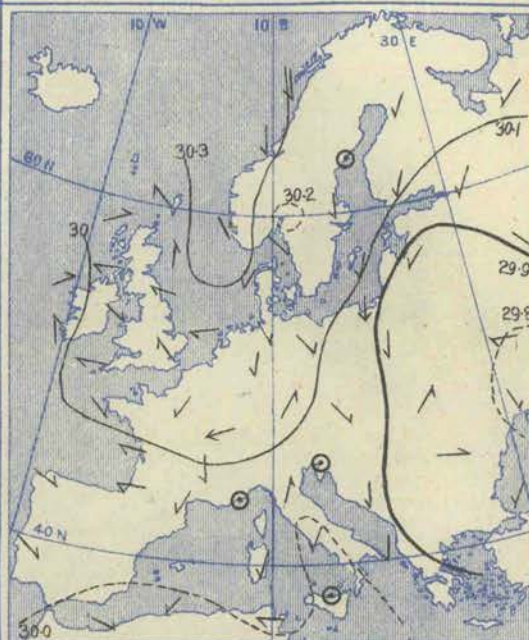


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still cloudy or dull over Russia and central Europe, with rain at some German and Austria-Hungarian stations; fine and bright in almost all other regions, but foggy on some parts of our southern and south-western coasts. Slight rain experienced later in the west of Ireland and in the Hebrides, and heavier falls over central Europe; weather continuing very fine and bright over western Europe as a whole.

Temperature changed irregularly; readings at 8 a.m. highest, 80° at Bilbao, 75° at Barcelona, 77° at San Fernando and Patras, and a little below or a few degrees above 70° at most southern stations; 67° in London. Lowest, 38° at Archangel, 47° at Wisby, 48° at Christian-sund, 49° at Warsaw and Bodo. Maxima during day as high as 92° at Annale, 91° at Perpignan and Biarritz, 90° at San Fernando, between 80° and 86° in Italy, and rather above 80° over central England. Below 60° over some parts of central Europe.

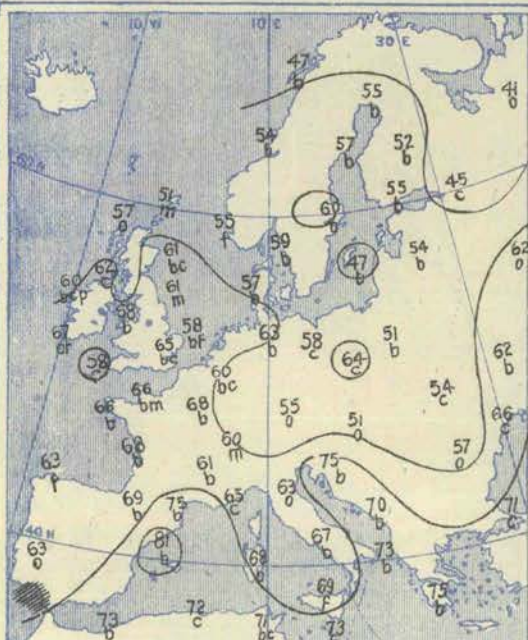
Wind remaining cyclonic over eastern and anticyclonic over western Europe. Light in force generally, but Southerly wind fresh in the west of Ireland, and Northerly and North-Easterly current fresh or strong off the Gulf of Finland and the Baltic. Light and variable over the Mediterranean. No important change in direction later, but becoming light or moderate in force everywhere.

Barometer fallen slowly over the Mediterranean, France, and central Europe, risen slowly elsewhere. Readings at 8 a.m. highest, above 30.3 ins., in a large area embracing Scandinavia, the North Sea, Great Britain, western Germany, and the greater part of France. Lowest, 29.7 ins. and less, in a disturbance over Russia. Latter system moving south-eastwards during day, and the former beginning to travel northwards.

Wednesday, 25th June.

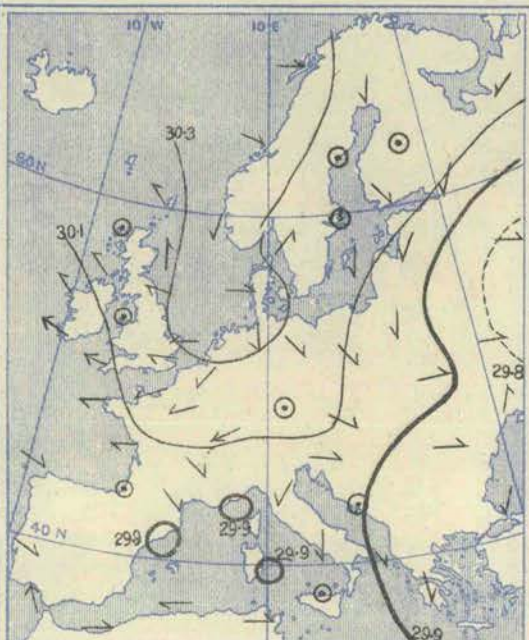
Temperature and Weather.

8 a.m.

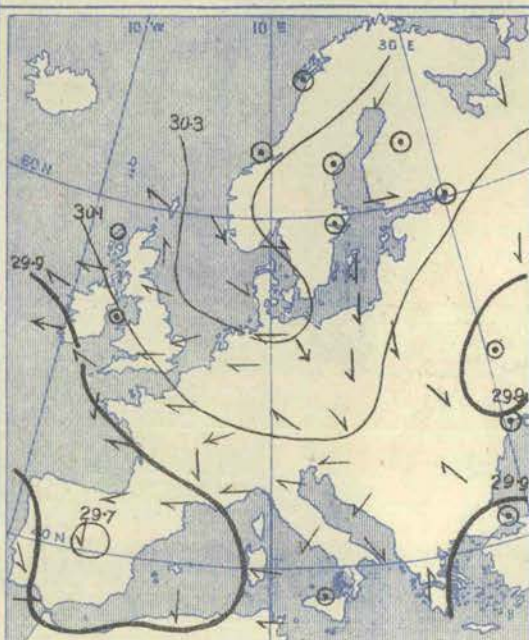


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in nearly all regions, but cloudy or dull over northern Italy and the west of Ireland, with rain at Pesaro, and thunder at Valencia; foggy on the east coast of England. Continuing fine during day as a whole, but rain falling at Nice and in some parts of Austria-Hungary.

Temperature risen in most localities, but fallen on our east coast and over central Europe. Readings at 8 a.m. ranging from 81° at Barcelona, 75° at Trieste and Patras, a little above or a little below 70° at most southern stations, and 68° over the north-west of England, to 51° at Vienna, and in the Shetlands, 45° at St. Petersburg, and 41° at Archangel. Rising later to nearly 80° in several parts of the United Kingdom, to nearly 90° in the south-west and south of France, and at Tunis, and to 99° at Madrid. Maximum at Vienna only 59°.

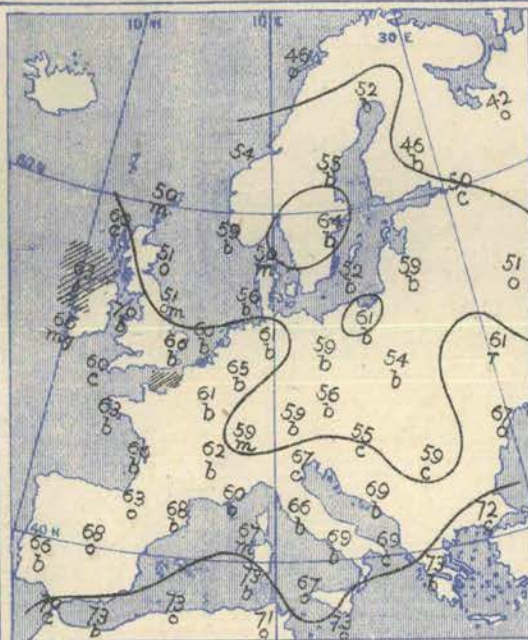
Wind in morning again anticyclonic over western, and cyclonic over eastern and south-eastern Europe. Light in force as a whole, but Easterly current over our western and southern coasts blowing freshly. Several separate but small cyclonic circulations over southern Europe and the Mediterranean. Very little change later.

Barometer fallen in the southern countries and on our own south and west coasts, risen elsewhere. Readings at 8 a.m. highest, 30.3 ins. and upwards, in an anticyclone over the North Sea, Denmark and Norway; lowest, 29.8 ins. and less, (1) in a disturbance over southern Russia, and (2) in a smaller system over Transylvania; about 29.9 in three small shallow disturbances in the western half of the Mediterranean. Latter systems dispersing by evening, but a new one forming over Spain.

Thursday, 26th June.

Temperature and Weather.

8 a.m.

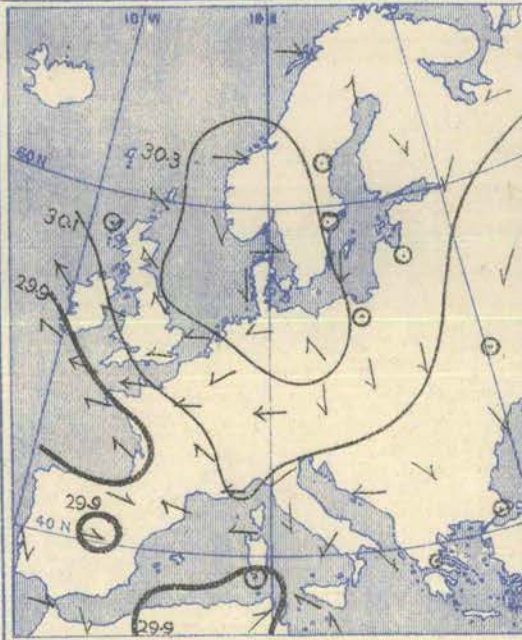


Weather in morning still very fine in most countries, but cloudy or dull in Russia, with rain at Kieff; rain also falling at Lemberg. Continuing fine and bright generally throughout day, but fog prevailing on our north-east coasts, slight rain falling in the south-west of Ireland and in Finland, and rather heavier falls at Bodö and Rome. Thunderstorms occurring in the south-west of France and also at Lyons.

Temperature fallen quickly on our north-east coast, and also over different parts of the Continent. Readings at 8 a.m. highest, 51° at Palma, 70° at Holyhead, and 42° at Archangel, 46° at Bodö and Kuopio, 51° at Moscow, Breslau, Aberdeen, and Shields, and 55° at Buda Pesth. Remaining below 60° on our north-east coasts all day, but rising to 76° in the Hebrides, to 80° over central England and in many parts of southern Europe, to 86° at Lorient and Clermont, and to 97° at Aumale.

Barometer and Wind.

8 a.m.



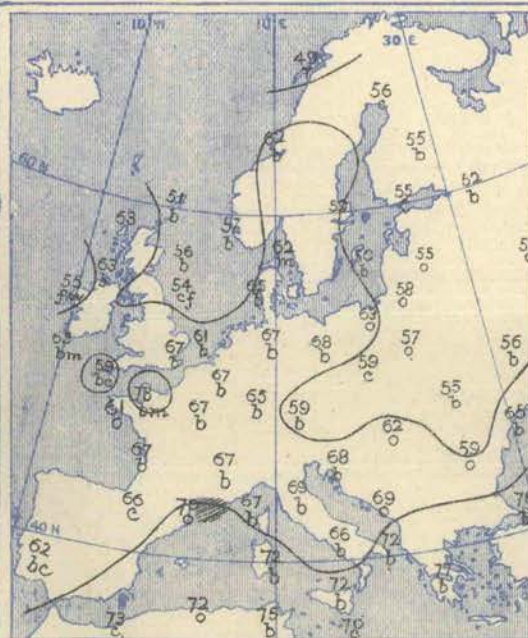
Wind at 8 a.m. light and anticyclonic over the northern half of Europe, but cyclonic and moderate or fresh in force over the Bay of Biscay and our own south-western and western coasts. Light and irregularly cyclonic over the southern countries and the Mediterranean. Scarcely any change later.

Barometer fallen somewhat in most parts of western and south-western Europe, risen elsewhere. 8 a.m. readings ranging from above 30.3 ins. in an anticyclone covering the North Sea, most of Germany, Denmark, the Baltic, and the major portion of Scandinavia, to less than 29.9 ins. in a cyclonic system over the Bay of Biscay, in another over central Spain, and in a third over Algeria and the adjacent part of the Mediterranean. Anticyclone becoming smaller during day, and depression over the Bay of Biscay moving northwards.

Friday, 27th June.

Temperature and Weather.

8 a.m.



Weather in morning fine and bright over the greater part of our Islands and the Continent, but dull at some of the Russian and Scandinavian stations, with rain at Bodö. Rain falling later in several parts of Scandinavia; thunderstorms occurring in Spain and the south of France, with heavy rain (1.9 ins.) at Madrid.

Temperature risen in most places. Morning readings highest, (1) 77° at Patras and Aumale, 75° at Athens and La Calle, and 74° at Barcelona; (2) 73° at Jersey and 72° at Holyhead; above 65° in many parts of England and also in the central parts of Ireland and Scotland. Lowest, (1) 49° at Bodö, 50° at Wisby and Moscow, and 52° at St. Petersburg; (2) 50° at Leith and 51° at Sumburgh Head. Rising during day to 80° or slightly above it in several inland parts of the United Kingdom, and to 83° at Loughborough; exceeding 80 also over the Netherlands, France, Germany, and Italy, and reaching 91° at Toulon.

Barometer and Wind.

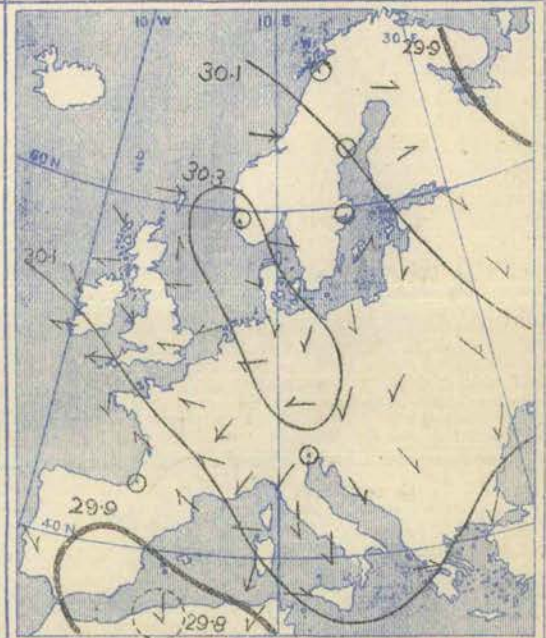
8 a.m.



Wind light to moderate from the Eastward or South-Eastward over the greater part of our Islands, France, Germany, and the Netherlands, but Southerly or South-Westerly in the north of Scotland. Westerly at many of the Scandinavian stations; light from the Northward or North-Westward over eastern Germany, Russia, Austria, and Italy. Subsequently shifting to the North-Westward on some parts of our own extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over the eastern parts of the North Sea. Lowest, 29.9 ins. and less in a large shallow area lying over Spain, Algeria, the south-west of France, and the southern part of the Bay of Biscay, and also (apparently) in another area over central Russia. High-pressure system giving way slowly during day; definite cyclonic disturbance appearing over Algeria in evening.

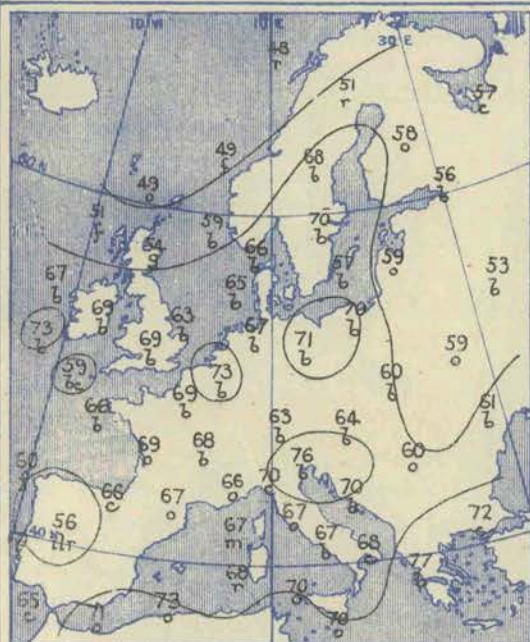
6 p.m.



Saturday, 28th June.

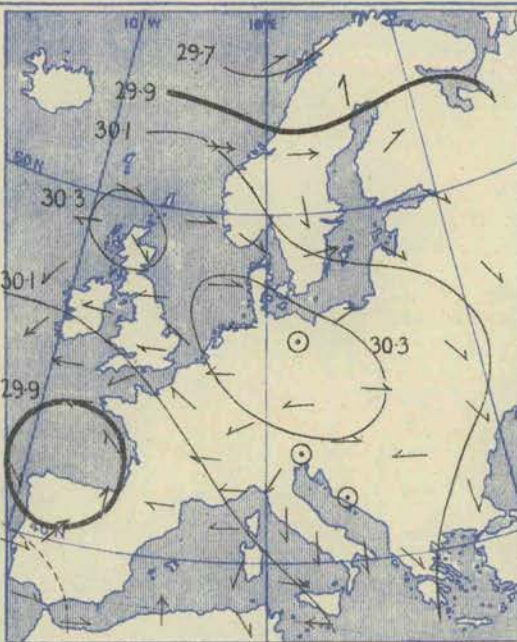
Temperature and Weather.

8 a.m.

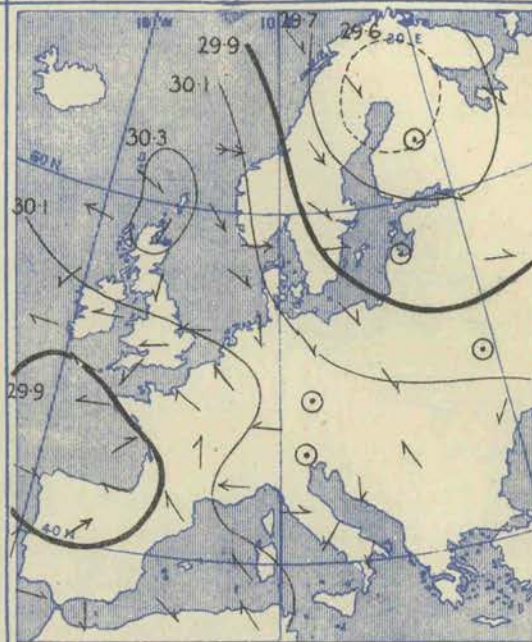


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright except in the extreme north of Europe, the north-west of Norway, and the north of Scotland; rain prevailing at the northern Continental stations, fog in the north of Scotland, some rain later in the northern districts and also in Spain and the west of France; thunder and lightning at Biarritz and Scilly; remaining fine as a rule elsewhere.

Temperature fallen fast in Scotland and Norway, risen a little elsewhere. Morning readings ranging from 77° at Patras and Nemours, and above 70° on the southern shores of the Atlantic, as well as over many parts of Germany and Belgium, and 69° to 60° in many parts of Ireland and England, to 52° at Wick, 49° at Christiansund, and 48° at Bodö. Rising later to between 80° and 86° in many parts of France, Germany, and England, to 81° at Valencia, and 77° to 70° over Scandinavia.

Wind light and anticyclonic over Scotland as well as over the north and west of Germany; Westerly over Norway (a gale at Christiansund), South-Westerly over Finland; Easterly over France and England, South-Easterly at Rochefort, Southerly at Biarritz, South-Westerly to Westerly over Spain. The Westerly wind over northern Europe extending later, the wind over France becoming very light and variable.

Barometer in morning highest, 30.3 ins. and more over the north of Scotland and over Holstein and the north-west of Germany. Lowest, 29.7 ins. and less in the extreme north of Europe, and 29.9 ins. and less in a disturbance over the Bay of Biscay. Anticyclones decreasing in intensity later and moving south-eastwards; another small depression developing near Jersey.

GENERAL NOTES.

At the commencement of this week an anticyclonic area, in which the barometric readings exceeded 30.2 ins., covered France and extended northwards as a "col" over the North Sea, joining a similar high-pressure area over Scandinavia. Temperature was rising over France, and the anticyclonic systems were pushing one cyclonic system away to the north-westward over the Atlantic and another to the eastward over Russia. The anticyclone continued to increase, and by Tuesday morning there was very little of the cyclone remaining in the west, while that over eastern Europe maintained great energy. Warm summerlike weather was spreading over the British Islands and their neighbourhood, and rain was decreasing.

The high-pressure area now moved slowly to north-north-east, and brilliant weather became general over western Europe.

On Thursday the system had reached Denmark and Norway, and its south-western limb was assuaged, with little result, by a depression from the Bay of Biscay, and subsequently by another on its north-western side from the Atlantic.

On Saturday the principal anticyclone was moving south-eastwards to Germany and showed weakness in several regions; the Easterly wind in the south freshened as a new disturbance approached from south-west, and it appeared evident that the fine warm weather over the British Islands was likely shortly to collapse.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ————— = a gale; ————— = a fresh to strong breeze; ————— = a light to moderate breeze; and ○ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; s = hail; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; at 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 152.

STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percent. of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percent. of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours.	Difference from the Mean for the Week	Percent. of Possible Duration	Difference from the Mean for the Week
DERNESS	54.9	+ 20.9	43	+ 16	THURCASTON	85.3	+ 45.5	73	+ 38	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	48.1	+ 12.3	33	+ 10	MARGATE	75.5	+ 31.8	60	+ 27	SOUTHPORT	80.8	—	66	—
EDINBURGH	38.1	+ 4.4	31	+ 3	BROADSTAIRS	76.5	—	67	—	RHYL	85.6	—	73	—
MORPETH	62.5	—	52	—	EASTBOURNE	88.1	+ 26.6	77	+ 31	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	60.0	—	49	—	BRIGHTON	77.0	+ 24.7	63	+ 22	ABERDOVEY	86.0†	—	74†	—
YORK	86.3	+ 46.4	73	+ 39	WORTHING	83.1	—	72	—	TENBY	67.1	+ 14.8	58	+ 12
LOWESTOFT	87.9	—	76	—	BOGNOR	84.9†	—	74†	—	NEWQUAY	—	—	—	—
DUNMOW	88.8	—	77	—	WATERGATE	82.1	—	72	—	TORQUAY	89.4	+ 28.8	71	+ 23
HOLLESLEY BAY	93.3	—	81	—	WESTBOURNE	77.2†	+ 27.2	63†	+ 24	GUERNSEY	67.8†	+ 9.2	61†	+ 8
SHEFFIELD	74.7	—	64	—	VENTNOR HOSPITAL	75.6	+ 29.1	66	+ 25					
WORKSOP	77.2	+ 29.6	66	+ 34										

† The values at Bognor, Westbourne, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, JULY 5TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 158.)		Temperature of the Air.														
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.								
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.				
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	80	42	62.1	48.1	54.6	1 above	88	Day-deg. + 8	0	0	690	Day-deg. - 102	660	Day-deg. + 91	
	1. SCOTLAND, EAST .	79	38	65.6	47.4	55.9	0 (average)	97	Day-deg. + 2	0	0	778	Day-deg. - 197	727	Day-deg. + 109	
	2. ENGLAND, N.E. .	79	40	66.3	50.5	57.9	1 above	111	Day-deg. + 5	0	0	955	Day-deg. - 64	522	Day-deg. + 13	
	3. ENGLAND, EAST .	86	39	70.8	52.1	60.8	2 above	132	Day-deg. + 13	0	0	1156	Day-deg. - 72	516	Day-deg. - 41	
	4. MIDLAND COUNTIES	85	40	70.4	52.0	60.6	2 above	130	Day-deg. + 13	0	0	1161	Day-deg. - 88	523	Day-deg. - 43	
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH .	84	41	68.9	53.4	60.6	1 above	130	Day-deg. + 4	0	0	1178	Day-deg. - 172	358	Day-deg. - 55	
	6. SCOTLAND, WEST .	80	39	66.6	50.9	58.2	2 above	113	Day-deg. + 13	0	0	988	Day-deg. - 61	483	Day-deg. + 50	
	7. ENGLAND, N.W. .	81	38	66.6	52.2	58.9	1 above	118	Day-deg. + 8	0	0	1045	Day-deg. - 81	421	Day-deg. + 6	
	8. ENGLAND, S.W. .	78	42	68.3	54.1	60.7	2 above	131	Day-deg. + 16	0	0	1204*	Day-deg. - 87	324	Day-deg. + 6	
	9. IRELAND, NORTH .	79	42	66.1	52.1	58.6	2 above	116	Day-deg. + 14	0	0	972*	Day-deg. - 167	339	Day-deg. - 28	
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH .	82	43	68.7	55.4	61.6	4 above	137	Day-deg. + 25	0	0	1238	Day-deg. - 101	240	Day-deg. - 28	
	—CHANNEL ISLANDS—	72	52	65.6	56.0	60.5	1 above	130	Day-deg. + 5	0	0	1428	Day-deg. - 53	99	Day-deg. - 24	
DISTRICTS. (See p. 158.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	3	10ths of in. 3	10ths of in. 4 less	130	+15	23.2	+ 0.1	45	+13	37	+10	678	+ 8	28	0
	1. SCOTLAND, EAST .	3	2	4 less	107	+10	11.7	- 2.5	35	- 3	29	- 3	684	- 52	29	- 2
	2. ENGLAND, N.E. .	3	3	3 less	91	+ 1	10.4	- 0.9	31	- 7	26	- 6	728	- 3	30	0
	3. ENGLAND, EAST .	2	4	1 less	93	+ 1	10.9	- 0.3	50	+ 2	44	+ 1	855	- 41	34	- 1
	4. MIDLAND COUNTIES	3	4	1 less	89	+ 2	11.6	- 1.2	39	- 3	34	- 3	720	- 17	32	0
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH .	3	4	1 less	88	+ 3	12.0	- 0.6	52	+ 2	46	+ 1	864	- 58	25	- 2
	6. SCOTLAND, WEST .	3	5	3 less	118	+16	22.9	- 0.4	47	+ 6	40	+ 5	706	- 69	29	- 3
	7. ENGLAND, N.W. .	4	5	2 less	109	+16	13.7	- 1.2	46	+ 5	39	+ 4	829	+ 53	35	+ 2
	8. ENGLAND, S.W. .	3	3	4 less	99	+ 2	14.9	- 3.4	38	- 11	34	- 10	814	- 109	35	- 4
	9. IRELAND, NORTH .	3	3	3 less	129	+19	17.3	+ 1.4	52	+18	45	+15	720	- 18	30	- 1
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH .	2	4	2 less	106	+ 3	16.8	- 2.4	42	+ 4	36	+ 2	777	- 50	33	- 2
	— CHANNEL ISLANDS—	3	2	3 less	103	+ 4	13.7	- 1.0	44	- 5	40	- 4	911	- 134	39	- 5

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather. During the early part of the week the weather was fine in the west, but changeable elsewhere, with thunderstorms in many parts of England, and heavy falls of rain in places. After the middle of the period the conditions were reversed, the weather being fine over nearly the whole of Great Britain, but very unsettled in Ireland and the west and north of Scotland.

Temperature was above the mean excepting in the east of Scotland; as a rule the excess did not amount to more than 1° or 2°, but in Ireland S. it was as much as 4°. The highest readings were observed on June 29th or 30th, when the thermometer rose to between 78° and 82° in the western and northern districts; in England S. it reached 84°, and in the Midland Counties 85°, while in England E. it rose to 86°. The lowest readings were reported about the middle of the week, and ranged from 38° in Scotland E. and England N.W., to 43° in Ireland S., and to 52° in the Channel Islands. On the night of July 1st the thermometer on the grass fell to a minimum of 27° at Fort William, and 28° at Harrogate.

Rainfall was deficient in all districts, and especially in Scotland N. and E., England S.W. and the Channel Islands, where the aggregate fall was less than half the average. Heavy falls

were registered in many parts of England on July 1st, the largest amount (1.7 ins.) occurring at Felixstowe during the progress of a thunderstorm.

Bright Sunshine differed but little from the average excepting in Scotland N. and Ireland N., where there was a large excess, and in England N.E. and S.W., where there was a rather large deficit.

Barometer and Wind. At the commencement of the week the barometer was high to the northward, and low to the south-westward of our Islands, the prevailing winds being Easterly and light or moderate in force. On June 30th, however, the northern high pressure system was replaced by a shallow cyclonic disturbance, and for a time the distribution was irregular, and the winds light and variable. On July 1st, however, an anticyclone spread over our Islands from the Atlantic, the wind being at first Northerly, and afterwards again very variable. Later on the anticyclone moved south-eastwards to France and Germany, while cyclonic areas appeared off our north and north-west coasts, so that the wind in our Islands shifted to South-West or South. At the close of the week the anticyclone extended north-westwards again, and the winds over Great Britain shifted to North or North-West.

DISTRICTS	NAMES OF STATIONS.	Temperature.							Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.							Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees.)							
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	59	42	53·6	45·9	49·5	- 1·7	53	0	4	0·49	- 0·01	*	*	*
	Stornoway	71	44	62·0	48·1	54·6	+ 1·3	88	0	2	0·36	- 0·27	47·5	+ 11·1	38 + 8
	Wick	67	42	60·7	46·7	53·2	- 0·5	78	0	2	0·24	- 0·25	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*
	Glencarron	73	43	64·5	48·1	55·7	+ 1·6	96	0	3	0·44	- 0·83	*	*	*
	Fort Augustus	77	47	65·3	49·1	56·6	+ 1·0	102	0	2	0·06	- 0·56	47·0	+ 21·7	39 + 18
1. SCOTLAND, E.	Fort William	80	43	66·5	50·9	58·2	+ 2·6	113	0	4	0·44	- 0·61	62·0	+ 27·7	51 + 23
	Nairn	75	42	65·6	47·1	55·7	- 0·1	96	0	2	0·14	- 0·39	*	*	*
	Aberdeen	69	45	63·4	48·6	55·5	+ 0·1	95	0	4	0·16	- 0·39	37·2	- 3·0	30 - 3
	Braemar	77	41	66·7	46·3	55·8	+ 2·3	97	0	2	0·26	- 0·34	*	*	*
	Ochertyre	79	38	68·4	46·3	56·6	- 0·5	102	0	2	0·21	- 0·48	*	*	*
	Leith	77	47	65·6	50·6	57·6	+ 0·3	109	0	2	0·38	- 0·15	*	*	*
2. ENGLAND, N.E.	Marchmont	75	39	64·1	45·6	54·2	- 0·9	85	0	2	0·18	- 0·53	37·3	- 2·6	31 - 3
	Alnwick Castle	78	42	69·9	48·4	58·4	+ 2·8	115	0	2	0·08	- 0·48	*	*	*
	Durham	75	40	65·1	48·6	56·3	- 1·0	100	0	3	0·24	- 0·32	26·0	- 12·2	22 - 11
	Shields	73	44	63·1	51·0	56·6	+ 0·3	102	0	2	0·19	- 0·31	*	*	*
	Scarborough	70	43	64·8	49·5	56·6	- 0·7	102	0	6	0·54	- 0·01	27·5	—	24 —
	Spurn Head	68	48	63·7	53·4	58·2	+ 0·2	113	0	2	0·19	- 0·17	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	79	44	71·0	52·3	61·0	+ 2·1	133	0	2	0·31	- 0·18	*	*	*
	Hillington	80	40	70·7	50·7	60·0	+ 0·9	126	0	3	0·24	- 0·33	47·2	+ 2·2	41 + 2
	Yarmouth	72	46	65·4	54·6	59·6	+ 1·1	123	0	2	0·26	- 0·27	*	*	*
	Geldeston	81	39	72·3	50·5	60·6	+ 1·8	130	0	2	0·21	- 0·29	49·9	+ 1·6	44 + 1
	Cambridge	86	41	74·8	51·0	62·1	+ 2·1	141	0	1	0·10	- 0·41	50·1	+ 4·3	44 + 3
	Felixstowe	75	45	69·5	54·6	61·5	+ 2·6	137	0	1	1·66	—	55·4†	—	49†
4. MIDLAND COUNTIES	Rothamsted	80	41	71·9	51·1	60·8	+ 1·8	132	0	2	0·11	- 0·43	44·8	- 1·7	39 - 2
	Harrogate	72	40	65·9	49·1	56·9	+ 0·3*	104	0	3	0·55	- 0·07	40·3	—	34 —
	Bawtry (Hesley Hall)	79	42	70·9	52·3	61·0	+ 2·2	133	0	3	0·26	- 0·29	*	*	*
	Loughborough	82	43	72·1	53·7	62·3	+ 2·4	142	0	4	0·33	- 0·17	*	*	*
	Colly Weston (Stamford)	85	46	73·6	52·9	62·5	+ 3·4	144	0	3	0·18	- 0·32	*	*	*
	Cheadle	78	42	68·8	51·6	59·6	+ 2·9	123	0	4	0·41	- 0·26	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	78	44	69·8	52·1	60·3	+ 1·9	128	0	4	0·41	- 0·19	33·6	—	29 —
	Churchstoke	78	46	70·8	51·5	60·5	+ 3·6	130	0	3	1·40	+ 0·87	35·6	- 7·8	31 - 7
	Hereford	76	47	69·8	51·7	60·1	+ 0·7	127	0	2	0·52	+ 0·03	*	*	*
	Gloucester	77	42	70·4	50·9	60·0	+ 1·8	126	0	3	0·17	- 0·41	34·7	- 10·3	30 - 10
	Oxford	78	48	72·3	54·0	62·5	+ 2·7	144	0	2	0·16	- 0·37	43·1	- 2·3	38 - 2
	London	84	46	75·0	53·1	63·3	+ 2·0	149	0	3	1·01	- 0·54	41·1†	- 0·9†	36† - 1†
6. SCOTLAND, W.	Swarraton (Alresford)	78	41	70·9	50·6	60·0	+ 2·1	126	0	3	0·19	- 0·34	*	*	*
	Dungeness	76	48	66·1	54·6	60·0	+ 0·6	126	0	3	0·33	0·00	58·4	—	52 —
	Hastings (St. Leonards)	78	49	67·1	54·7	60·5	+ 1·1	130	0	3	0·35	- 0·08	56·8	+ 4·8	50 + 3
	Southampton	78	48	72·1	54·2	62·5	+ 1·5	144	0	3	0·22	- 0·29	46·6	- 3·1	41 - 3
	Portland Bill	66	51	62·6	54·1	58·1	- 0·4	113	0	3	0·46	—	*	*	*
	Shaftesbury	73	48	68·8	52·6	60·1	+ 2·4	127	0	3	0·14	- 0·46	*	*	*
7. ENGLAND, N.W.	Landale (Loch Sunart)	80	39	69·2	51·1	59·5	+ 3·2	123	0	3	0·31	- 0·75	*	*	*
	Glasgow	72	49	65·8	51·2	58·0	+ 1·5	112	0	3	0·24	- 0·46	42·7	+ 8·4	36 + 7
	Cally	72	40	66·9	49·4	57·5	+ 1·4	109	0	3	1·04	+ 0·24	*	*	*
	Douglas (Isle of Man)	74	46	64·4	52·0	57·8	+ 1·5	111	0	2	0·38	- 0·23	51·1	+ 3·8	44 + 3
	Newton Reigny	77	38	65·9	47·4	56·0	0·0	98	0	2	0·28	—	41·9	—	35 —
	Stonyhurst	74	40	66·1	51·4	58·2	+ 1·8	113	0	5	0·76	- 0·09	45·2	+ 3·0	39 + 3
8. ENGLAND, S.W.	Blackpool	77	39	66·1	53·3	59·3	+ 1·0	121	0	4	0·42	- 0·18	49·1	+ 6·4	42 + 5
	Manchester (Prestwich)	77	41	68·4	51·1	59·2	+ 1·5	120	0	3	0·42	- 0·32	37·7	—	32 —
	Liverpool Obsy. (Bidston)	80	47	66·9	54·9	60·5	+ 1·8	130	0	3	0·19	- 0·37	—	—	—
	Chester	81	42	69·1	52·3	60·1	+ 1·2	127	0	4	0·26	—	*	*	*
	Llandudno	77	45	67·6	54·2	60·4	+ 1·7	129	0	5	0·45	- 0·06	48·8	+ 5·8	42 + 5
	Holyhead	74	47	63·0	53·1	57·7	+ 0·2	110	0	4	0·90	+ 0·38	*	*	*
9. IRELAND, N.	Llandovery	78	42	72·0	52·9	61·8	+ 3·8	139	0	4	0·12	- 0·64	*	*	*
	Pembroke	68	52	62·1	54·9	58·3	+ 1·1	114	0	4	0·16	- 0·34	18·9	- 30·5	17 - 27
	Clifton	76	50	72·0	55·3	63·1	+ 3·7	148	0	3	0·18	- 0·41	*	*	*
	Bath	75	44	70·3	53·6	61·4	+ 1·3	136	0	2	0·32	—	37·8	—	33 —
	Arlington (N. Devon)	72	48	67·3	53·6	60·0	+ 2·8	126	0	2	0·24	- 0·61	*	*	*
	Cullompton	78	44	71·2	53·6	61·8	+ 2·1	139	0	2	0·37	- 0·21	38·2	- 5·8	34 - 5
10. IRELAND, S.	Falmouth	68	50	64·9	54·8	59·5	+ 0·3	123	0	2	0·30	- 0·32	47·9	- 4·5	43 - 4
	Plymouth	71	47	66·6	54·2	60·0	- 0·4	126	0	2	0·48	- 0·07	52·8	+ 4·4	47 + 3
	Malin Head	72	47	63·3	51·4	56·9	+ 0·7	104	0	4	0·19	- 0·41	*	*	*
	Edenfel (Omagh)	78	42	68·9	51·4	59·5	+ 3·7	123	0	2	0·30	- 0·41	*	*	*
	Blacksod Point	74	51	63·7	54·9	59·0	+ 2·2	119	0	4	0·56	- 0·09	*	*	*
	Markree Castle	79	45	69·2	52·4	60·2	+ 4·3	127	0	4	0·23	- 0·54	51·3	+ 18·0	44 + 15
CHANNEL ISLANDS	Armagh	73	42	67·3	50·9	58·5	+ 1·8	116	0	2	0·33	- 0·30	52·1	+ 16·8	45 + 15
	Donaghadee	70	45	64·0	51·3	57·2	+ 0·8	106	0	2	0·36	- 0·22	*	*	*
	Dublin	72	47	69·0	55·6	61·8	+ 2·9	139	0	3	0·22	- 0·29	53·4	+ 12·6	46 + 10
	Parsonstown	81	44	70·6	53·7	61·6	+ 4·2	137	0	2	0·23	- 0·39	38·2	+ 3·6	33 + 3
	Kilkenny	78	43	69·1	54·3	61·2	+ 3·3	134	0	1	0·15	- 0·41	*	*	*
	Roche's Point	69	53	64·4	56·4	60·1	+ 1·5	127	0	3	0·22	- 0·46	*	*	*
CHANNEL ISLANDS	Valencia	79	49	67·1	56·0	61·2	+ 3·5	134	0	5	1·08	+ 0·24	33·5	- 5·8	29 - 6
	Killarney	82	50	71·6	56·2	63·4	+ 6·0	150	0	2	0·72	- 0·01	*	*	*
	Foynes	82	51	68·8	55·5	61·7	+ 4·7	138	0	1	0·46	- 0·18	*	*	*
	Scilly (St. Mary's)	66	55	64·4	56·6	60·2	+ 1·2	127	0	3	0·05	- 0·42	26·8	—	24 —
	Jersey	72	52	66·7	55·4	60·7	0·0	131	0	3	0·27	- 0·21	53·9	- 2·1	49 - 2

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

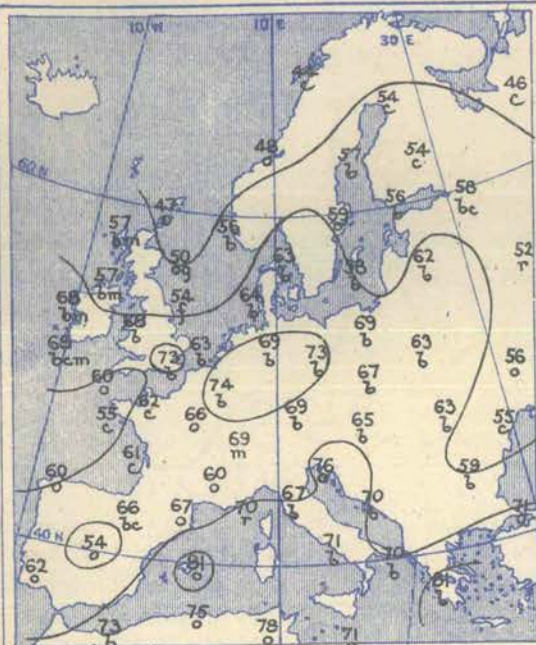
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea and those entered to Liverpool at Hoylake.

Sunday, 29th June.

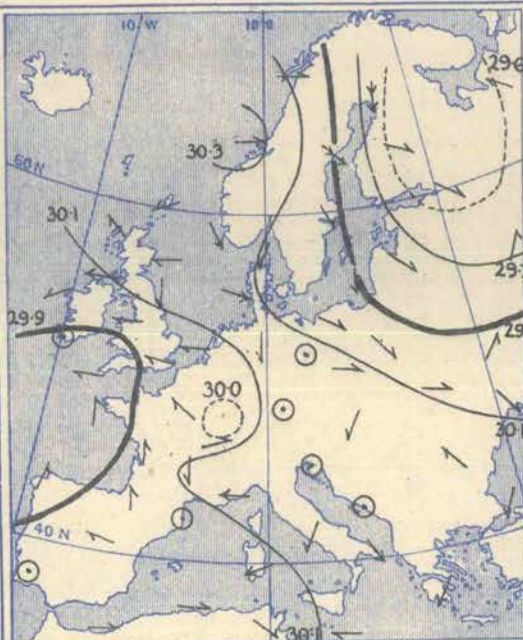
Temperature and Weather.

8 a.m.

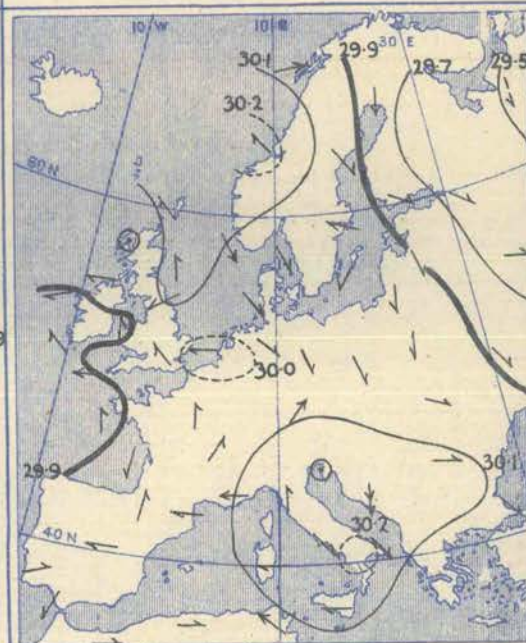


Barometer and Wind.

8 a.m.



6 p.m.



Weather very fine and bright over Continental Europe and the greater part of the United Kingdom: dull and unsettled however in the south-west of England, rainy at Le Mans. Thunderstorms and a little rain later in many parts of England and the north of France; a slight fall at Bodø also.

Temperature in morning highest, 81° at Patras and Palma, and above 70° over nearly the whole of the Mediterranean; 73° at Frankfurt, Berlin, and London. Lowest, 44° at Bodø, 46° at Archangel, 47° at Sumburgh Head, 50° at Aberdeen. Rising during day to 80° or 81° in several parts of England and France, to 91° at Berlin, 90° at Frankfurt, 85° at Rome, 100° at Biskra and Laghouat.

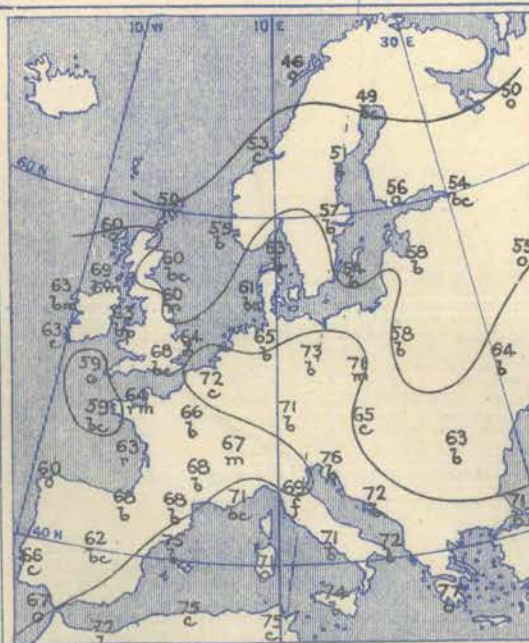
Wind (1) North-Westerly, strong to a gale, over Sweden and Finland, South-Westerly light over central Russia; (2) very light over the British Islands and western Europe, Southerly in the west of France, Easterly over England, North-Easterly over Ireland. Great variation over our Islands and France later, mainly local, but no wind of great strength reported.

Barometer highest, 30.2 ins. and more over the north-east of Scotland and the west of Norway, about the same height in the north of Italy, and above 30.1 ins. in a "col" spreading over north Germany and the North Sea. Lowest, 29.6 ins. and less in a large depression over the south of Ireland. Small extra and shallow disturbances in several parts of Spain, France, and England. All moving irregularly during day, and some new ones forming.

Monday, 30th June.

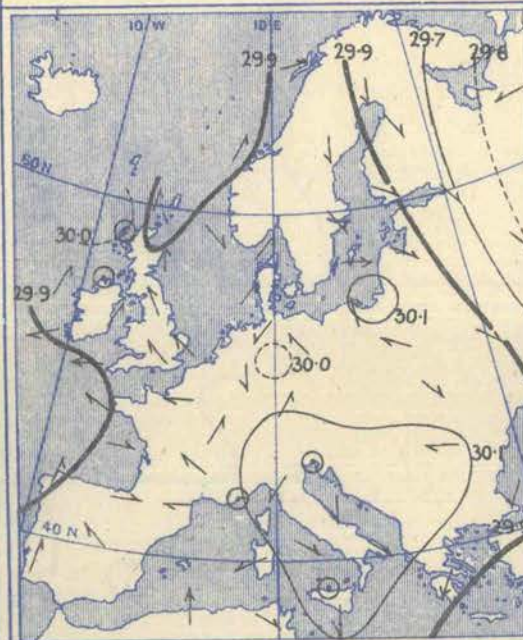
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over central and south-eastern Europe, more or less cloudy and very unsettled elsewhere, especially over the north-west of France. Rain later over the west of Norway, south-west, south, and east parts of England (especially London), and in the west and north of France (especially Le Mans); thunder and lightning in several places.

Temperature in morning irregularly distributed. Highest, 77° at Athens and Laghouat, 72° to 68° on the northern shores of the Mediterranean, 73° at Berlin, 68° in London, 69° at Malin Head. Lowest, 59° at Scilly, 55° at Moscow, 50° at Sumburgh Head and Archangel, 46° at Bodø. Rising greatly in many regions later, and exceeding 80° in many parts of France and Germany. Touching 84° in London, then falling to 65°, and subsequently rising to 71° before falling for the night.

Wind very variable both in direction and force all over Europe, but, except at Wisby, not strong. Mainly South-Westerly over Spain, Easterly over France, South-Easterly over England, Southerly and calm in Scotland and the north of Ireland, South-Westerly over Norway, Northerly in the north of Sweden. Becoming still more variable later, and a separate cyclonic circulation setting in over the south of Norway.

Barometer in morning highest, 30.21 ins. at Brindisi, 30.1 ins. and more over nearly the whole of central Europe and the North Sea, the east of France, the Mediterranean, and, east and south-east of Spain. A second high-pressure system developing off the north-west of Scotland. Lowest, 29.87 ins. at Sumburgh Head, 29.89 ins. at Scilly and Corunna, 29.6 ins. and less over central Russia. A very shallow secondary over the north-west of Germany. Changing very irregularly later, and other shallow secondaries appearing over the south of England and the south of Norway.

Tuesday, 1st July.

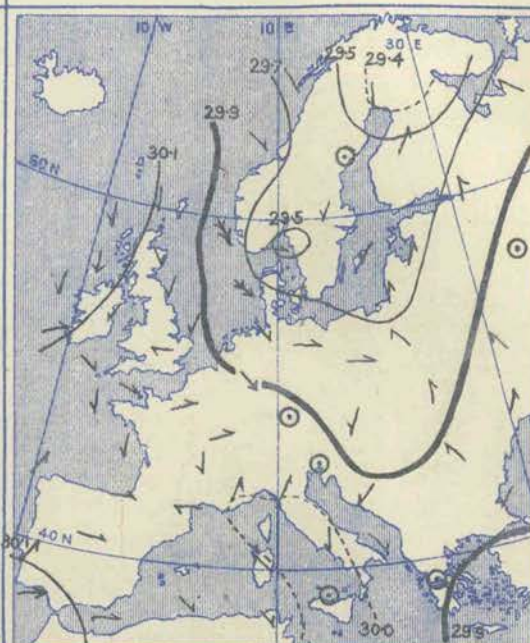
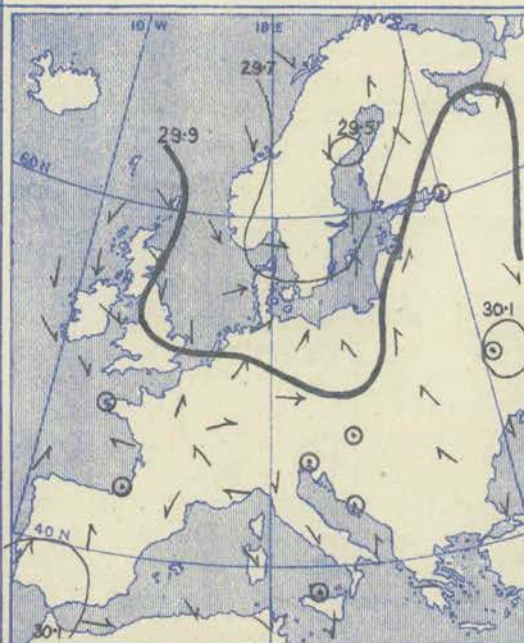
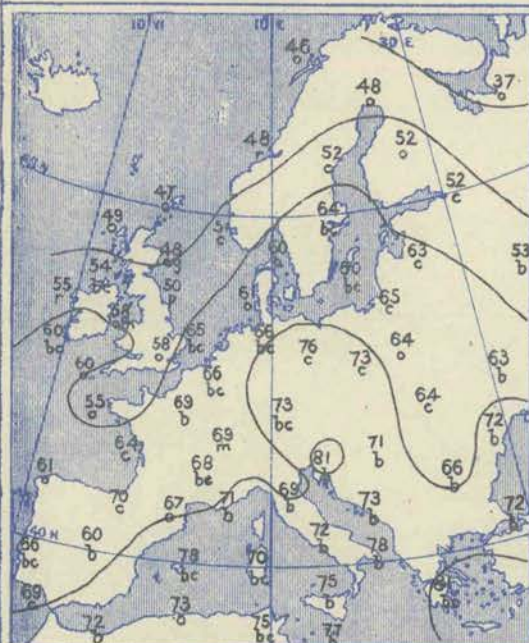
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over western and northern Europe generally, with passing showers at Shields, and steady rain at Blacksod Point and Christiansund; fine in the south of Ireland and also over central France. Fine also over southern and eastern Europe generally, but dull in the north-west of Spain. Rain falling later in the south of our Islands and the western and northern parts of the Continent generally, thunderstorms occurring in London and at several of the French stations, as well as at Karlstad.

Temperature fallen quickly in the north of our Islands, and less decidedly in most other parts of north-western Europe, but risen elsewhere. Morning readings highest, 86° at Aumale, 81° at Trieste and Athens, and 79° at Patras; above 70° in most parts of central and southern Europe. Lowest, 37° at Archangel, 46° at Bodø, 47° at Sumburgh Head, and 48° at Haparanda, Christiansund and Aberdeen. Daily maxima below 55° on some parts of our north and north-east coasts, but thermometer exceeding 65° in most parts of England and the south of Ireland, and reaching 78° in London. Exceeding 80° over central and southern Europe, and reaching 91° at Malta.

Wind light to moderate from the Northward or North-Westward over the greater part of the United Kingdom, and also in the west of Norway; South-Westerly in the south-east of England, as well as in the Netherlands, Germany and Denmark; Southerly over Sweden, Finland and the Baltic. Calm in Austria; light and variable in Greece, Italy and the south of France; Southerly or South-Westerly over the Spanish Peninsula. Subsequently increasing to a gale from the North-Westward on the eastern shores of the North Sea; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in the south of Spain, and also in the south-west of Russia. Lowest, 29.5 ins. to 29.6 ins. in a large cyclonic system over Sweden and the north of Norway; "V-shaped" secondary disturbances reported over England, the North Sea and North Germany. New cyclonic area appearing later over Lapland; "V-shaped" secondary systems all moving south-eastwards.

Wednesday, 2nd July.

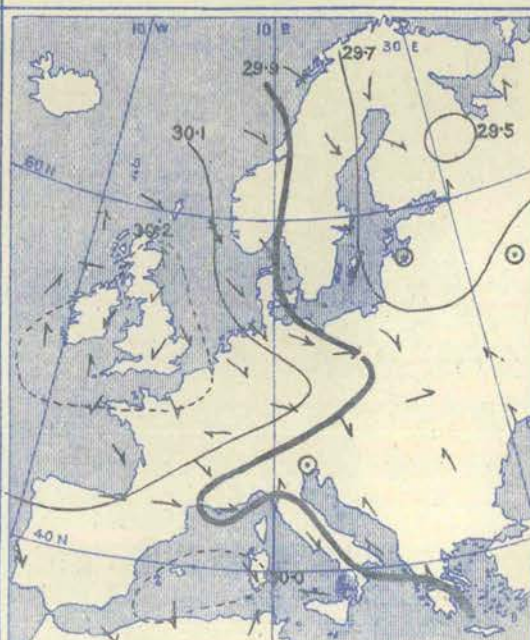
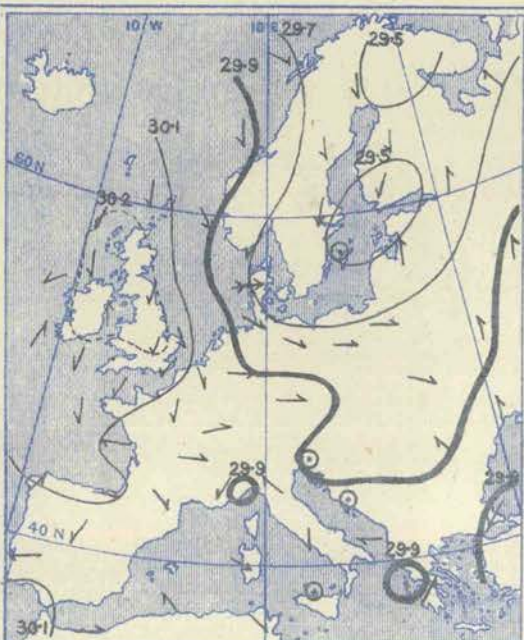
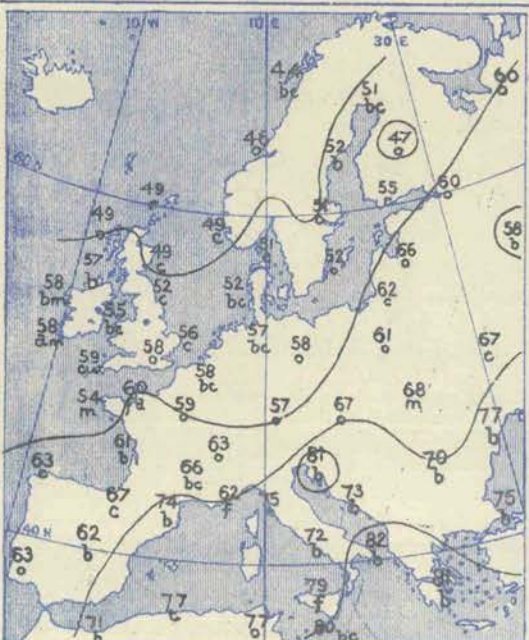
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over western and southern Europe generally, but dull at several of our own southern stations, and also in the north of France, with drizzling rain at Valencia and Jersey. Cloudy or dull in Germany, Austria, Western Russia, and the south of Sweden. Slight rain falling later in the west of our Islands, and also in the west of Norway; larger quantities reported over Austria and south Germany—as much as 1.7 ins. at Trieste. Thunderstorms occurring at Lyons and Algiers.

Temperature fallen considerably in Denmark, Germany and the south of Sweden, and to a less extent in England and France, risen in most other countries. Morning readings highest, 82° at Brindisi, 81° at Athens, and 80° at Patras and Malta; above 70° over southern and eastern Europe generally. Lowest, 44° at Bodø and Karlstad, 46° at Christiansund, and 47° at Knopio; below 50° on the north and north-east coasts of Scotland. Daily maxima below 65° in most parts of the United Kingdom, and below 60° on many parts of our north and east coasts, but thermometer reaching 71° at Parsonstown; exceeding 80° over southern and eastern Europe, and touching 92° at Palermo.

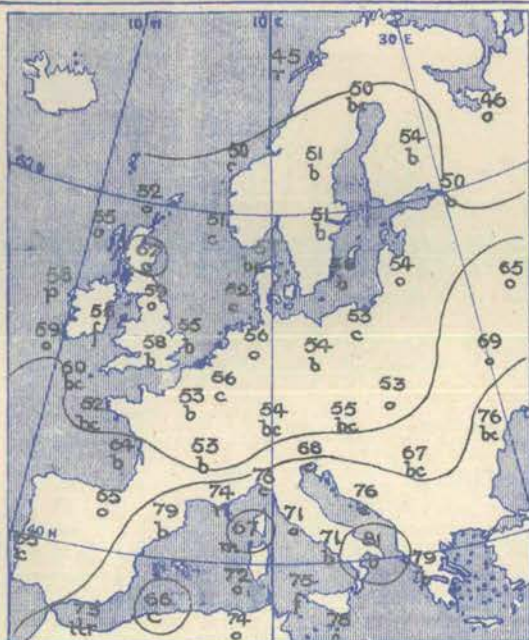
Wind Northerly or North-Westerly over northern Europe and the eastern parts of Great Britain, and strong to a gale in force in the south of Sweden. Westerly or South-Westerly in Germany; Southerly in Russia; North-Easterly in the south of England and the north of France; South-Easterly or Southerly in Ireland. Light and variable in Greece, Italy and the south of France; North-Easterly in Spain. Subsequently shifting to the Southward in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in an anticyclone covering nearly the whole of the United Kingdom. Lowest, 29.5 ins. and less in two cyclonic areas—one lying over Lapland, and the other over the Gulf of Finland and the northern part of the Baltic. Anticyclone moving slowly southwards during day; cyclonic systems over northern Europe travelling north-eastwards.

Thursday, 3rd July.

Temperature and Weather.

8 a.m.

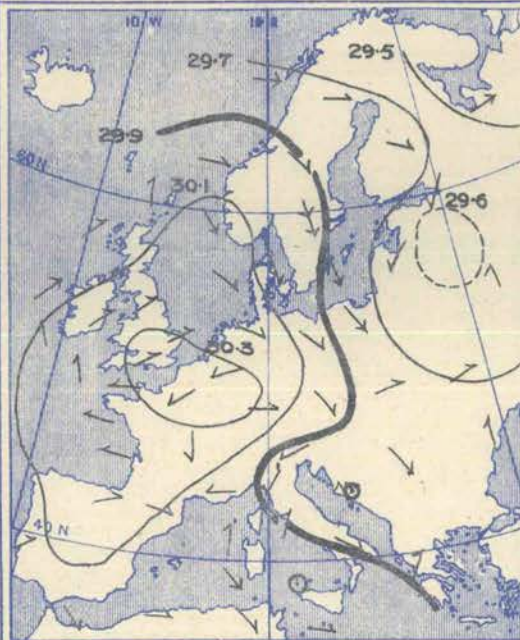


Weather in morning fine over the south and east of England and the greater part of the Continent, but dull over western Russia and the east of Germany, and rainy at Bodø. Cloudy or dull over the western and northern parts of the United Kingdom, with rain at several of our north-western stations. Rain falling later in the west and north of our Islands generally—heavily at Valencia; a considerable quantity reported also at Lisbon.

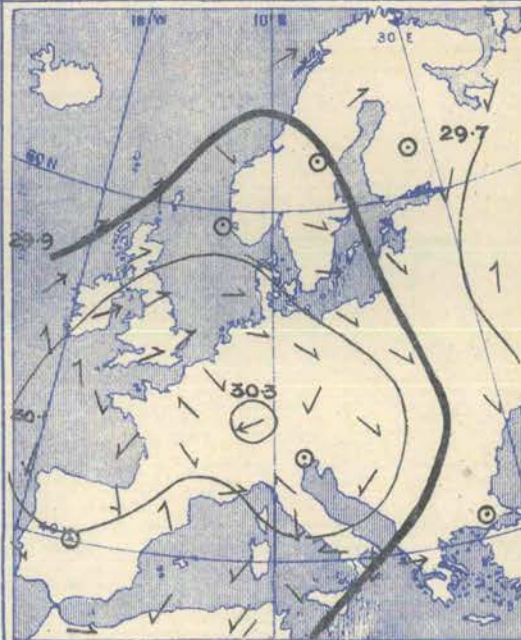
Temperature risen over north-western Europe, but fallen elsewhere. Morning readings highest, 81° at Brindisi, 79° at Patras and Barcelona, and 78° at Athens; above 70° at most of the Adriatic and Spanish coast stations, and above 60° in the east of Scotland. Lowest, 45° at Bodø, 46° at Archangel, and 50° at Christiansund, Haparanda, Karlstad, Wisby and St. Petersburg. Rising during day to 65° and upwards in many parts of Great Britain, and to 69° in London and at Aberdeen; exceeding 80° over southern Europe generally, and reaching 91° at Croisette, Brindisi, and Cagliari.

Barometer and Wind.

8 a.m.



6 p.m.



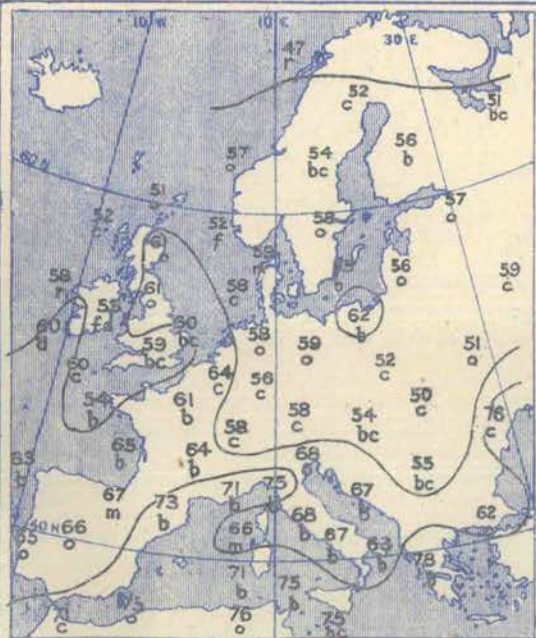
Wind light to moderate from the Southward or South-Westward over our Islands, and from the Westward in the west of Norway; Northerly or North-Westward over Sweden, Denmark, Germany and Western Russia, and strong to a gale in force in the south of Sweden. Light from the Eastward or North-Eastward over France and Spain; variable in Italy; South-Westward in Greece. No decided change occurring over western Europe later, but Northerly winds springing up in Italy.

Barometer highest, 30.3 ins. and upwards over the south-east of England, the north-east of France, Belgium, and western Germany; 30.1 ins. and upwards in an anticyclonic covering the greater part of western and central Europe. Lowest, 29.5 ins. and less in a cyclonic disturbance over the extreme north of Russia; 29.6 ins. and less in a secondary system with its centre between Moscow and St. Petersburg. Anticyclone moving southwards later and partially breaking up; depressions over Russia travelling away to the eastward, but new disturbance approaching our own north-western coasts from Atlantic.

Friday, 4th July.

Temperature and Weather.

8 a.m.

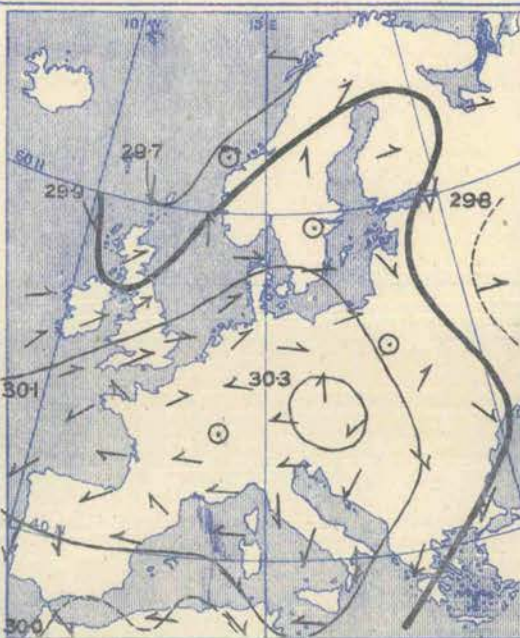


Weather in morning fine over France and several parts of northern Europe; fair over central Europe, but overcast in many localities; dull in the west and north of our Islands, and the west of Norway, with rain in many places, and fog or haze in a few. Rain later over southern Russia, and small quantities in Scotland and Ireland, as well as in Portugal.

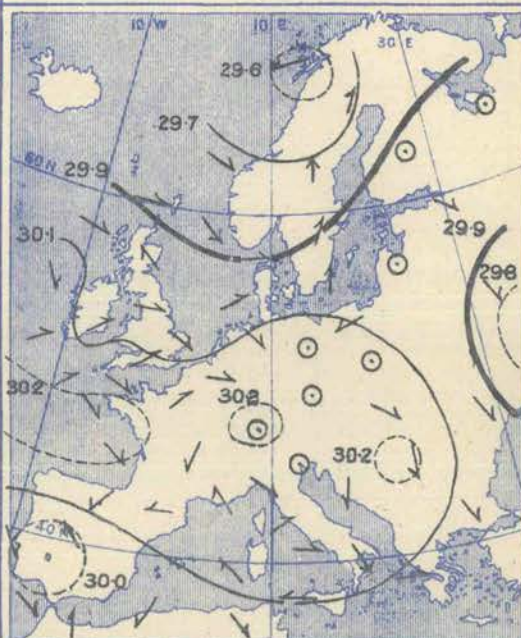
Temperature risen considerably over most of the Continent, fallen in the south of France, not much changed in our Islands. Morning readings ranging from 78° at Patras and Alicante, and more than 70° over the southern sides of the Mediterranean generally, to 60° or more over the greater part of England and Ireland, 51° at Stornoway and Archangel, 47° at Bodø. Not touching 80° later over the greater part of north-western and central Europe, but touching 86° to 84° in the south-west and south of France.

Barometer and Wind.

8 a.m.



6 p.m.



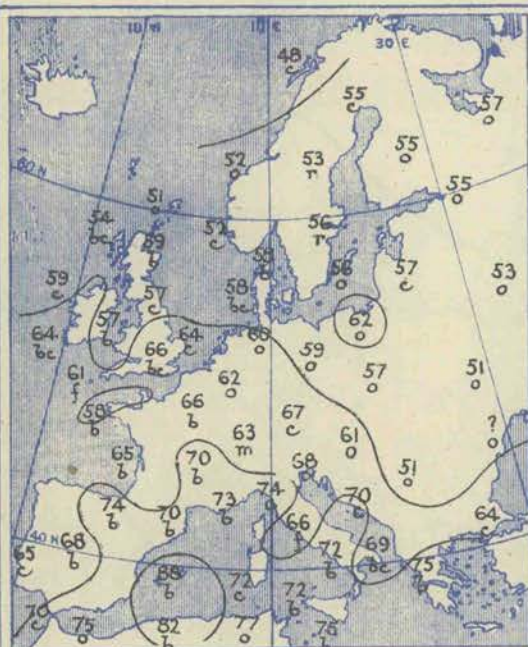
Wind Westerly to South-Westward over nearly all the western and southern countries (Northerly in the north-west of Scotland, and North-Westward in the north of Ireland); light and anticyclonic over France and central Europe; Easterly and North-Easterly over southern Europe; Northerly and calm over Russia and central Germany. Varying greatly between North and South-West later over the north and north-west of our Islands; falling calm over central Europe.

Barometer in morning, highest, 30.8 ins. and more to 30.2 ins. in an anticyclonic area covering Germany and France. Lowest, (1) 30.0 ins. and less over northern Africa, and (2) 29.7 ins. and less in a depression off the west of Norway, and below 30.0 ins. in a "V" extending southwards over the north of Ireland. Rising later over Russia and beginning to recover in Ireland as the disturbance there moved eastwards.

Saturday, 5th July.

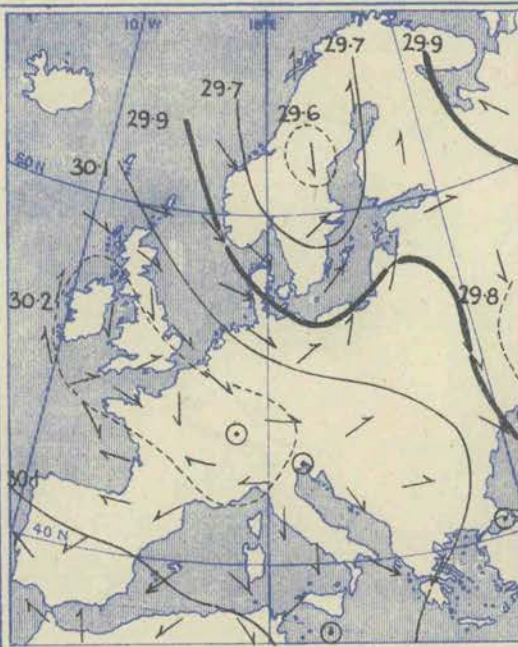
Temperature and Weather.

8 a.m.

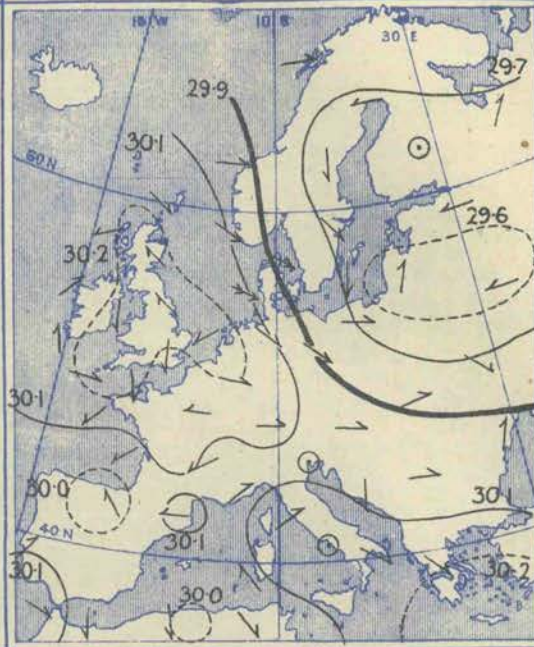


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over nearly all the western and southern countries of Europe; dull in the north-west of Norway, and rainy over several parts of the Baltic; cloudy over Germany and Russia. Rain later in the west and north-west of our Islands, and in some parts of Norway, Russia, and Austria.

Temperature changing fitfully—risen in morning over France and Austria. Morning readings highest, 78° at Palma, and above 70° all over the Mediterranean, above 60° over France, England, and the south of Ireland. Lowest, 44° at Uleaborg, 48° at Bodø, 51° at Sumburgh Head, 54° at Stornoway. Rising later to between 75° and 80° over England, to 81° at Frankfurt, 86° at Nice, 95° at Rochefort.

Wind light and anticyclonic over Ireland, France, and the south-western half of England; cyclonic but not strong round a depression over northern Europe, Easterly moderate over Spain, Southerly winds setting in later over the west of Ireland, a Northerly breeze over Sweden, variable Southerly breezes over Spain. Gusty unsettled breezes over London about 8 p.m., and sky for a time looking very unsettled.

Barometer highest, 30.2 ins. and more to 30.1 ins. in an anticyclone of peculiar form over the whole of the British Islands, France, the north of Spain, and south Germany. Lowest, 29.6 ins. and less in a depression over Sweden and in another over the south of Russia. Strange complications over Russia and the Baltic later; a new high-pressure area appearing over the south of Spain, and another over Greece and Italy.

GENERAL NOTES.

At the commencement of this week an area of high pressure, exceeding 30.2 ins. (Christian-sund 30.33 ins.), lay over the west of Norway, the Shetland Islands, and north-east of Scotland; a band of high pressure extending thence to south-eastern Europe and enclosing a second area of 30.2 ins. and more over the north of Italy. A low-pressure area of 29.6 ins. and less lying over northern Europe, another (29.9 ins. and less) over the Bay of Biscay.

Various modifications of these conditions occurred during the next few days, and local disturbances appeared in many parts of western Europe, causing local thunderstorms and heavy rains in places.

By Wednesday an anticyclone had been formed over the British Islands and Bay of Biscay, while the barometer was low over Finland. This high-pressure area moved south-eastwards slowly, and by Thursday evening embraced the north of France and north Germany. South-Westerly winds set in over the British Islands, veering subsequently to west and north-west, and on Saturday morning an anticyclone covered Ireland, England, and France, while a new depression lay over Sweden.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 158.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the week.	Percent- age of Possible Duration.	Difference from the Mean for the week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	38.5	+ 5.0	31	+ 4	WORKSOP	38.6	+ 1.3	33	+ 1	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	32.2	- 0.5	26	- 1	THURCASTON	44.0	+ 3.7	38	+ 3	SOUTHPORT	—	—	43	—
EDINBURGH	29.8	- 3.6	25	- 3	MARGATE	52.1	+ 7.7	46	+ 6	RHYL	49.9	—	40	—
MORPETH	36.1	—	30	—	BROADSTAIRS	—	—	—	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	24.8	—	21	—	EASTBOURNE	57.8	+ 6.0	51	+ 4	ABERDOVEY	46.4†	—	40†	—
YORK	38.2	- 1.4	33	- 1	BRIGHTON	57.1	+ 5.1	51	+ 4	TENBY	28.5	- 21.3	25	- 19
CROMER	45.2	—	39	—	WORTHING	57.6	—	51	—	NEWQUAY	31.3	- 18.7	28	- 17
LOWESTOFT	53.9	—	47	—	BOGNOR	57.2†	—	51†	—	TORQUAY	49.2	- 2.5	44	- 3
DUNMOW	49.0	—	43	—	WATERGATE	43.5	—	38	—	GUERNSEY	50.8†	- 6.9	46†	- 7
HOLLESLEY BAY	53.7	—	47	—	WESTBOURNE	47.1†	- 3.4	42†	- 3					
SHEFFIELD	42.3	—	36	—	VENTNOR HOSPITAL	51.5	+ 4.2	46	+ 4					

† The values at Bognor, Westbourne, Aberdovey and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees)		Number of Days with Rain.	Rainfall in the Week.	Differ- ence from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Pos- sible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
Week ending June 7th, 1902.	Rhyl	—	—	—	—	—	—	—	—	—	—	31.3	—	27	—	
" " 7th "	Churchstoke	58	32	55.9	43.2	49.1	- 5.6	50	0	6	0.64	+ 0.14	18.8	- 26.2	16	- 23
" " 7th "	Newquay	—	—	—	—	—	—	—	—	—	—	—	68.0	+ 16.2	60	+ 14

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Vol. XIX. No. 28.]
Fourth Series.

WEEK ENDING SATURDAY, JULY 12TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 164.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	39	56.9	47.4	51.8	3 below	Day-deg. 69	Day-deg. -15	Day-deg. 0	Day-deg. 0	Day-deg. 759	Day-deg. -117	Day-deg. 660	Day-deg. + 91
	1. SCOTLAND, EAST	73	39	61.9	48.2	54.6	2 below	88	-13	0	0	866	-210	727	+109
	2. ENGLAND, N.E.	76	37	65.5	51.3	57.9	0 (average)	111	-1	0	0	1066	-65	522	+13
	3. ENGLAND, EAST	81	39	69.5	52.0	60.2	0 (average)	127	+1	0	0	1283	-71	516	-41
	4. MIDLAND COUNTIES	80	37	68.5	51.2	59.3	0 (average)	121	-1	0	0	1282	-89	523	-43
5. ENGLAND, SOUTH	85	40	70.5	53.8	61.6	2 above	137	+4	0	0	1315	-168	358	-55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	42	61.2	49.7	55.1	2 below	92	-12	0	0	1080	-73	483	+50
	7. ENGLAND, N.W.	77	39	63.2	52.1	57.3	1 below	107	-8	0	0	1152	-89	421	+6
	8. ENGLAND, S.W.	80	38	67.5	52.4	59.4	0 (average)	122	+2	0	0	1326	-85	324	+6
	9. IRELAND, NORTH	73	42	61.8	52.1	56.6	0 (average)	102	-4	0	0	1074	-171	339	-28
	10. IRELAND, SOUTH	75	43	65.7	53.4	59.1	1 above	120	+4	0	0	1358	-97	240	-23
— CHANNEL ISLANDS	83	45	67.5	55.9	61.3	1 above	135	+4	0	0	1563	-49	99	-24	

DISTRICTS. (See p. 164.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 9	10ths of in. 1 more	136	+17	24.1	+ 0.2	10	-20	8	-17	688	-12	27	-1
	1. SCOTLAND, EAST	4	7	0 (average)	111	+11	12.4	- 2.5	24	-13	20	-11	708	-65	28	-3
	2. ENGLAND, N.E.	4	4	1 less	95	+2	10.8	- 1.0	26	-13	22	-12	754	-16	30	0
	3. ENGLAND, EAST	2	6	0 (average)	95	0	11.5	- 0.3	54	+5	48	+4	909	-36	34	-2
	4. MIDLAND COUNTIES	2	3	3 less	91	+1	11.9	- 1.5	43	+7	38	+5	763	-11	32	-1
5. ENGLAND, SOUTH	2	3	2 less	90	+2	12.3	- 0.8	76	+27	68	+23	941*	-31	36	-1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	17	8 more	124	+19	24.6	+ 0.5	22	-17	19	-15	728	-86	29	-3
	7. ENGLAND, N.W.	4	6	0 (average)	113	+16	14.3	- 1.3	28	-13	24	-12	857	+40	35	+2
	8. ENGLAND, S.W.	2	2	5 less	101	+1	15.1	- 3.9	64	+17	57	+17	878	-92	36	-3
	9. IRELAND, NORTH	6	10	4 more	135	+21	18.3	+ 1.7	27	-5	23	-5	747	-23	30	-1
	10. IRELAND, SOUTH	3	1	6 less	109	+2	16.9	- 3.0	36	0	31	0	813	-50	33	-2
— CHANNEL ISLANDS	2	1	4 less	105	+3	13.8	- 1.4	79	+32	72	+29	990	-102	40	-5	

* This Value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was generally fair over the United Kingdom as a whole, but rain was of frequent occurrence over the extreme western coasts of Ireland and Scotland, and was also experienced over the other parts of our Islands on Wednesday and Thursday. On the latter day sharp thunderstorms occurred over the central, eastern, and southern parts of England.

Temperature was high during the earlier days of the period, but fell quickly towards its close, so that the average for the week did not, as a rule, differ very materially from the mean. In Scotland, however, it was 2° or 3° below, and in England S. 2° above the normal. The highest of the maxima (recorded on Sunday over Ireland and Scotland, and on Tuesday over England) ranged from 85° in England S., 83° in the Channel Islands, and 80° or above in most English districts, to 69° or 68° in Scotland W. and N. The lowest of the minima were mostly registered on Saturday, and ranged from 37° in the Midland Counties and England N.E. to 43° in Ireland S., and 45° in the Channel Islands. Thermometers exposed on the grass descended as low as 32° 2 at Cheadle, 30° 0 at Harrogate, and 29° 2 at Cullompton.

Rainfall exceeded the mean in Scotland N. and W., and in Ireland N., and just equalled it in Scotland E. and England E. and N.W., but elsewhere the fall was deficient.

Bright Sunshine was in excess of the mean in all the more southern districts of England, but showed a deficit in nearly all other parts of the Kingdom. The percentage of the possible duration ranged from 72 in the Channel Islands, 68 in England S., 57 in England S.W., and 48 in England E., to 23 in Ireland N., 22 in England N.E., 20 in Scotland E., and to 8 in Scotland N.

Barometer and Wind. The distribution of pressure, and consequently the direction of the wind, changed frequently during this period. Several cyclonic disturbances appeared in different parts of our area, but the deepest and most well defined system was that which travelled from west to east over our northern districts on the 9th, and was followed by strong North-Westerly winds, and a sudden fall of temperature over our Islands and their neighbourhood. By the end of the period an anticyclone had advanced over the southern districts from the Atlantic, but the barometer was again falling in the west and north, and the wind freshening considerably from the Southward and South-Westward.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	55	43	52.3	46.0	48.9	- 3.1	48	0	5	0.30	- 0.22	*	*	*
	Stornoway	63	43	57.7	47.4	52.2	- 1.9	71	0	6	0.80	+ 0.14	10.1	- 23.9	8 - 20
	Wick	68	39	56.0	46.0	50.7	- 3.9	61	0	6	0.81	+ 0.27	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*
	Glencarron	59	42	56.6	47.4	51.7	- 2.7	68	0	7	1.46	+ 0.13	*	*	*
	Fort Augustus	64	40	60.0	47.5	53.8	- 2.7	79	0	6	0.69	+ 0.03	7.1	- 16.1	6 - 13
1. SCOTLAND, E.	Fort William	60	45	58.8	50.2	54.2	- 1.9	85	0	6	1.31	+ 0.18	8.4	- 23.0	7 - 19
	Nairn	71	39	61.7	47.1	53.9	- 2.5	83	0	5	0.54	- 0.03	*	*	*
	Aberdeen	72	43	61.6	49.3	55.0	- 1.4	91	0	3	1.01	+ 0.41	28.5	- 10.2	24 - 8
	Braemar	66	41	59.0	46.7	52.4	- 1.6	73	0	4	0.47	- 0.14	*	*	*
	Ochertyre	67	39	63.0	48.1	55.0	- 2.6	91	0	5	0.37	+ 0.20	*	*	*
	Leith	73	46	64.4	51.4	57.5	- 0.5	109	0	4	0.66	+ 0.10	*	*	*
2. ENGLAND, N.E.	Marchmont	72	39	61.9	46.7	53.8	- 2.2	83	0	4	0.37	- 0.38	30.0	- 9.2	25 - 8
	Alnwick Castle	75	37	66.3	49.3	57.2	+ 0.5	106	0	3	0.21	- 0.39	*	*	*
	Durham	74	39	63.3	49.3	55.8	- 2.3	97	0	5	0.61	+ 0.01	26.4	- 11.3	23 - 10
	Shields	76	45	63.3	52.1	57.3	+ 0.2	107	0	5	0.30	- 0.25	*	*	*
	Scarborough	75	45	67.0	51.3	58.6	+ 0.4	116	0	6	0.35	- 0.22	30.9	—	27 —
	Spurn Head	73	47	65.0	53.7	59.0	- 0.2	119	0	3	0.66	+ 0.30	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	75	42	67.9	52.1	59.5	- 0.3	123	0	2	0.21	- 0.30	*	*	*
	Hillington	78	41	70.1	50.7	59.7	- 0.2	124	0	2	0.49	- 0.11	44.6	- 0.1	39 0
	Yarmouth	74	45	66.1	53.9	59.6	- 0.1	123	0	2	0.82	+ 0.24	*	*	*
	Geldeston	77	43	68.9	50.0	58.8	- 0.6	118	0	3	0.88	+ 0.34	49.7	+ 1.9	44 + 1
	Cambridge	81	40	72.3	50.8	60.8	0.0	132	0	2	0.32	- 0.21	54.0	+ 8.3	47 + 6
	Felixstowe	76	46	68.7	54.4	61.1	+ 1.4	134	0	2	0.43	—	58.8†	- †	52† - †
4. MIDLAND COUNTIES	Rothamsted	80	39	70.8	52.2	60.9	+ 1.5	132	0	2	0.41	- 0.14	55.1	+ 7.7	48 + 6
	Harrogate	76	40	63.2	49.9	56.1	- 1.0	99	0	5	0.52	- 0.08	26.0	—	22 —
	Bawtry (Hesley Hall)	80	42	67.3	53.0	59.7	+ 0.4	124	0	3	0.44	- 0.13	*	*	*
	Loughborough	78	39	69.9	51.7	60.2	- 0.7	127	0	2	0.33	- 0.17	*	*	*
	Colly Weston (Stamford)	78	41	69.9	51.1	59.9	- 0.5	125	0	2	0.33	- 0.20	*	*	*
	Cheadle	75	42	64.8	50.5	57.2	0.0	106	0	2	0.31	- 0.35	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	78	43	68.2	52.3	59.7	+ 0.3	124	0	2	0.40	- 0.20	40.0	—	35 —
	Churchstoke	77	39	69.1	48.5	58.1	+ 0.5	113	0	2	0.16	- 0.37	55.2	+ 12.6	48 + 10
	Hereford	79	38	70.6	50.8	60.0	- 0.1	126	0	1	0.10	- 0.40	*	*	*
	Cirencester	79	37	71.0	50.1	59.8	+ 0.7	125	0	2	0.30	- 0.31	60.2	+ 15.5	53 + 13
	Oxford	80	42	71.3	53.9	62.0	+ 1.3	140	0	2	0.21	- 0.34	59.4	+ 14.0	52 + 12
	London	84	44	75.0	54.1	63.8	+ 1.3	153	0	2	0.63	+ 0.13	56.94	+ 14.74	504 + 12†
6. SCOTLAND, W.	Swarraton (Alresford)	81	40	72.7	50.3	60.7	+ 2.3	131	0	2	0.32	- 0.23	*	*	*
	Dungeness	71	51	67.3	54.9	60.7	+ 0.3	131	0	2	0.28	- 0.07	77.1	—	69 —
	Hastings (St. Leonards)	76	50	68.1	55.4	61.3	+ 1.1	135	0	2	0.26	- 0.20	81.7	+ 29.4	73 + 26
	Southampton	85	47	76.2	54.4	64.5	+ 2.7	158	0	1	0.24	- 0.31	78.7	+ 29.2	70 + 25
	Portland Bill	71	51	64.1	55.3	59.4	+ 0.3	122	0	2	0.29	—	*	*	*
	Shaftesbury	77	45	70.0	52.5	60.6	+ 2.2	130	0	2	0.37	- 0.26	*	*	*
7. ENGLAND, N.W.	Landale (Loch Sunart)	63	42	60.4	49.4	54.5	- 2.2	88	0	7	1.59	+ 0.47	*	*	*
	Glasgow	65	44	60.3	50.4	55.0	- 2.1	91	0	6	1.63	+ 0.90	18.0	- 15.2	15 - 13
	Cally	69	44	62.3	49.3	55.4	- 1.5	94	0	6	2.15	+ 1.31	*	*	*
	Douglas (Isle of Man)	66	45	61.8	49.8	55.4	- 1.6	94	0	5	1.28	+ 0.64	26.5	- 19.3	23 - 17
	Newton Reigny	74	39	62.9	49.4	55.7	- 1.0	96	0	5	1.00	—	24.5	—	21 —
	Stonyhurst	73	44	62.1	50.9	56.1	- 2.0	99	0	5	1.45	+ 0.55	25.5	- 15.3	22 - 14
8. ENGLAND, S.W.	Blackpool	69	45	62.0	52.7	57.0	- 2.1	105	0	5	0.60	- 0.03	25.8	- 16.2	22 - 14
	Manchester (Prestwich)	77	40	63.6	49.7	56.2	- 2.2	99	0	4	0.82	+ 0.05	20.7	—	18 —
	Liverpool Obsy. (Bidston)	71	48	63.4	54.0	58.4	- 0.9	115	0	3	0.53	- 0.06	24.2	—	21 —
	Chester	72	42	66.1	54.0	59.6	0.0	123	0	2	0.12	—	*	*	*
	Llandudno	74	47	65.7	53.5	59.2	- 0.3	120	0	3	0.22	- 0.32	33.9	- 7.8	29 - 7
	Holyhead	65	50	59.7	52.6	55.9	- 2.4	97	0	2	0.23	- 0.32	*	*	*
9. IRELAND, N.	Llandoverly	78	38	69.0	50.6	59.2	+ 1.4	120	0	3	0.43	- 0.40	*	*	*
	Pembroke	62	50	59.6	53.6	56.4	- 1.4	101	0	1	0.14	- 0.39	48.2	+ 0.5	42 0
	Clifton	77	48	70.0	55.0	62.0	+ 1.6	140	0	2	0.14	- 0.50	*	*	*
	Bath	78	42	70.0	52.6	60.7	- 0.2	131	0	2	0.19	—	60.8	—	54 —
	Arlington (N. Devon)	72	41	65.7	49.7	57.1	- 0.9	106	0	3	0.28	- 0.64	*	*	*
	Cullompton	80	39	72.0	51.5	61.0	+ 0.6	133	0	2	0.20	- 0.42	62.3	+ 19.3	56 + 17
10. IRELAND, S.	Falmouth	71	47	65.5	53.1	58.9	- 0.6	118	0	1	0.07	- 0.58	74.8	+ 23.2	67 + 20
	Plymouth	76	46	68.3	53.1	60.2	- 0.4	127	0	1	0.18	- 0.40	75.1	+ 27.5	68 + 25
	Malin Head	61	42	58.6	50.0	54.0	- 2.3	84	0	7	1.47	+ 0.83	*	*	*
	Edenfel (Omagh)	68	45	62.0	52.3	56.8	+ 0.4	104	0	6	1.08	+ 0.35	*	*	*
	Blacksod Point	61	46	60.1	52.7	56.1	- 1.2	99	0	7	1.33	+ 0.67	*	*	*
	Markree Castle	68	47	63.1	53.8	58.1	+ 1.7	113	0	6	1.00	+ 0.21	29.5	- 1.5	25 - 1
CHANNEL ISLANDS	Armagh	70	45	64.4	52.3	57.9	+ 0.7	111	0	4	0.66	- 0.01	23.9	- 9.5	21 - 8
	Donaghadee	73	47	62.7	51.3	56.6	- 0.6	102	0	5	0.70	+ 0.08	*	*	*
	Dublin	75	48	67.2	54.4	60.4	+ 0.8	129	0	5	0.23	- 0.33	39.6	+ 0.6	34 0
	Parsonstown	70	43	65.4	53.3	58.9	+ 0.9	118	0	4	0.21	- 0.44	35.3	+ 3.1	31 + 2
	Kilkenny	75	45	67.9	52.6	59.7	+ 1.1	124	0	0	0.00	- 0.57	*	*	*
	Roche's Point	69	48	65.0	53.3	58.7	- 0.3	117	0	1	0.02	- 0.65	*	*	*
CHANNEL ISLANDS	Valencia	63	48	61.6	54.3	57.7	- 0.5	110	0	3	0.07	- 0.79	33.2	- 3.5	29 - 3
	Killarney	72	48	68.0	53.7	60.4	+ 2.4	129	0	1	0.05	- 0.71	*	*	*
	Foynes	73	45	64.6	52.5	58.1	+ 0.9	113	0	2	0.07	- 0.59	*	*	*
	Scilly (St. Mary's)	66	55	64.6	56.1	60.1	+ 0.4	127	0	1	0.03	- 0.47	60.2	—	54 —
	Jersey	83	46	70.4	55.6	62.5	+ 1.1	144	0	3	0.17	- 0.33	89.3	+ 33.9	81 + 30

Stations Marked $\mathcal{R}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

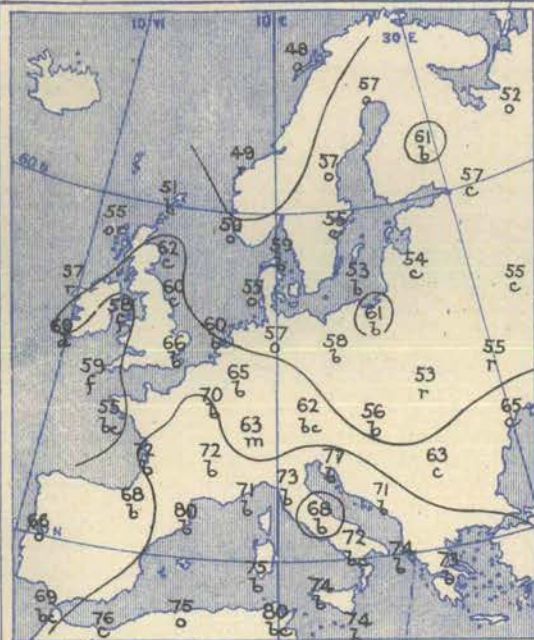
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 6th July.

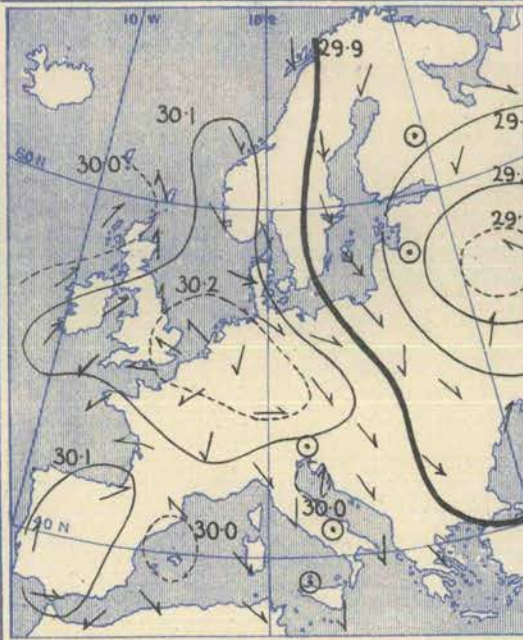
Temperature and Weather.

8 a.m.

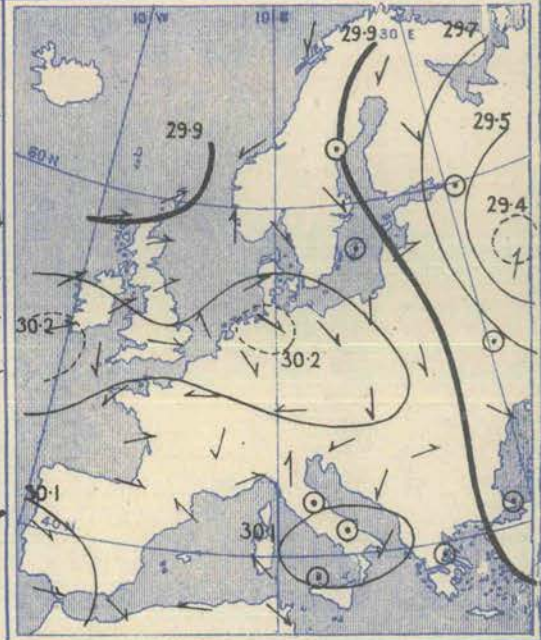


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, France, Holland, and the south-east of England; cloudy and unsettled over Russia, with rain in places; dull, foggy, and rainy on the western and northern coasts of the British Islands and in the north-west of Norway. Not much rain later at our extreme western and northern stations, but considerable quantities, locally, over Russia; fog at many of our western stations, lightning at Biarritz. Temperature fallen a little in most places. Morning readings ranging from 80° at La Calle, 78° at Alicante, and more than 70° at most of the Mediterranean stations, 70° at Paris, and 72° at Jersey, to 55° or less over central Russia, as well as at Sumburgh Head, and 48° at Bodø. Rising later to more than 70° over several parts of England, to 82° in London, 90° at Lyons, 96° at Limoges, and 106° at Aumale.

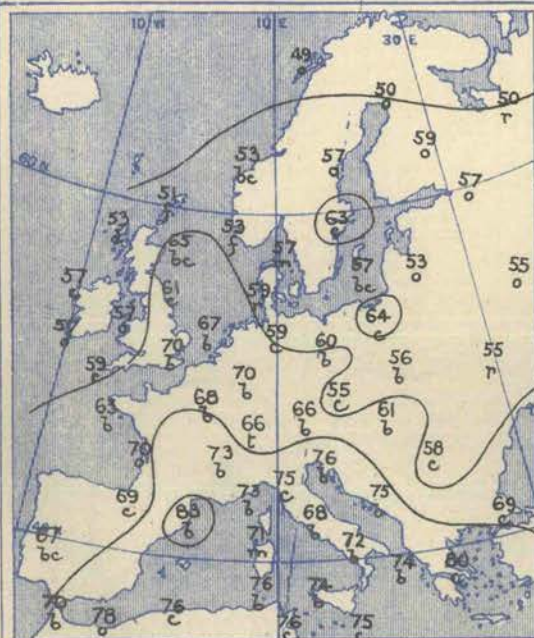
Wind light and anticyclonic over the south-east of England, the north of France, the Netherlands, and western Germany; moderate to fresh from South-West or South in the extreme north-west of Ireland and the Hebrides; Northerly over Scandinavia and the Netherlands, North-Westerly over the Baltic (a gale at Wisby). The gale just mentioned dying down later; Westerly winds becoming general over the British Islands, except in the south.

Barometer in morning, 30.26 ins. at the Helder, and exceeding 30.1 ins. almost all over Ireland, England, the North Sea, and France, as well as in Spain and Portugal. Lowest, 29.4 ins. and less over central Russia, and below 30 ins. both in the Hebrides and in a small shallow disturbance near Pesaro. Rising a little later both over Russia and in the west of Ireland, falling in the north of Scotland.

Monday, 7th July.

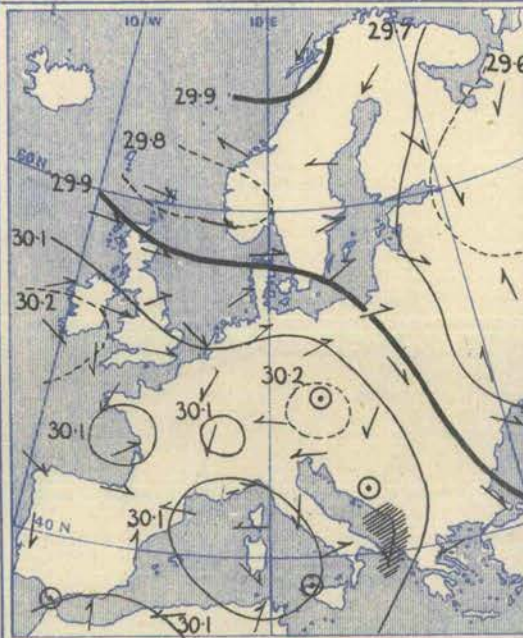
Temperature and Weather.

8 a.m.

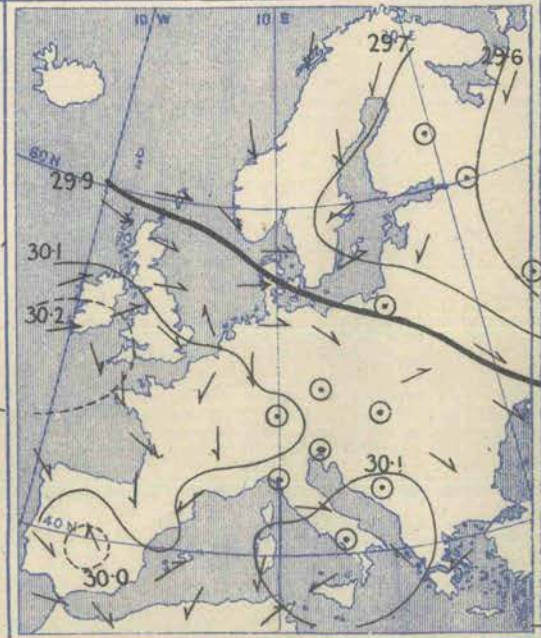


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning continuing fine over the Mediterranean, France, and the southern and south-western parts of our Islands; fine in Norway also; showery in the north-west of Ireland, rainy in Sweden, Finland, and some parts of Russia, dull over eastern Europe generally. Some rain later on our extreme north-west coasts, as well as over Sweden and Denmark; much bright sunshine in the south of England.

Temperature not changing very decidedly. Morning readings as high as 83° at Perpignan, 82° at Aumale, and much above 70° at many Mediterranean stations; 70° in London, 55° to 60° over Germany. Lowest, 49° at Bodø, 50° at Archangel, 51° at Sumburgh Head, 54° at Malin Head, 53° at Helsingfors. Again rising to 82° in London during the day, to 88° at Frankfurt 91° at Lorient, 93° at Lyons, 106° at Aumale.

Wind very light and variable over the Mediterranean and southern part of Europe; light North-Westerly to South-Westerly over the British Islands and North Sea; North-Easterly to Easterly over the most northern parts of Europe, North-Westerly over the Gulf of Finland, Westerly over north Germany. Not much change later beyond a slight extension of the North-Easterly wind in the far north.

Barometer in morning highest, (1) 30.2 ins. and more over the southern half of Ireland, and also in a small area over north Germany; exceeding 30.1 ins. over almost the whole of central Europe; (2) 29.9 ins. and more over the north-west of Norway. Lowest, (1) 29.6 ins. and less in a shallow depression over the north of Russia, and 29.8 ins. and less in another over the Shetlands and West of Norway; (2) below 29.6 ins. in some very shallow disturbances over France and the Bay of Biscay. A new depression forming over Spain later, that near Norway moving eastwards.

Tuesday, 8th July.

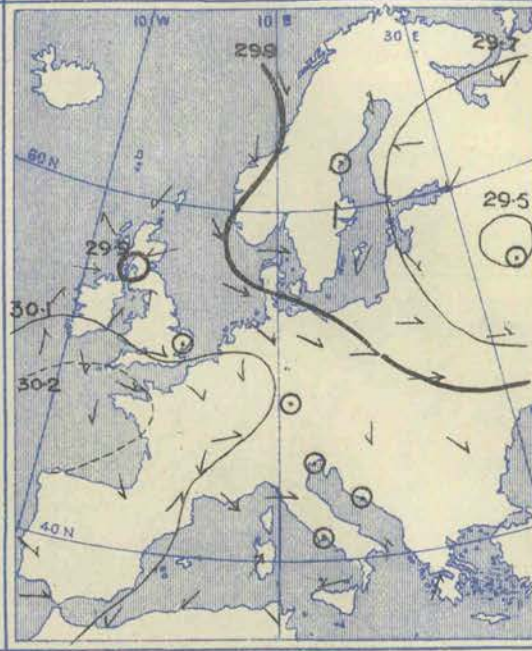
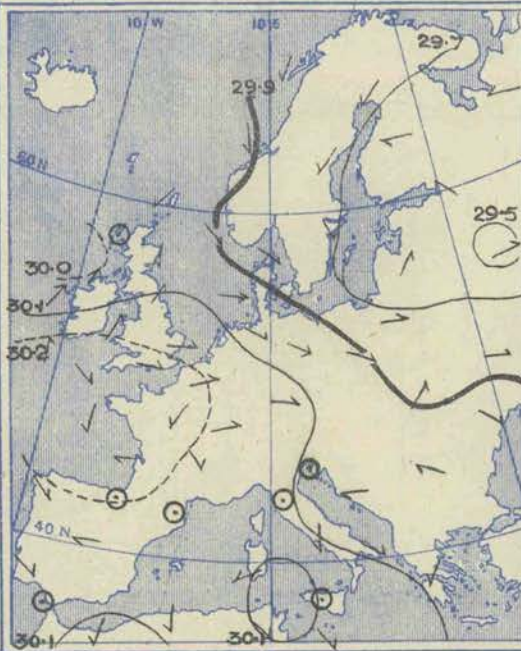
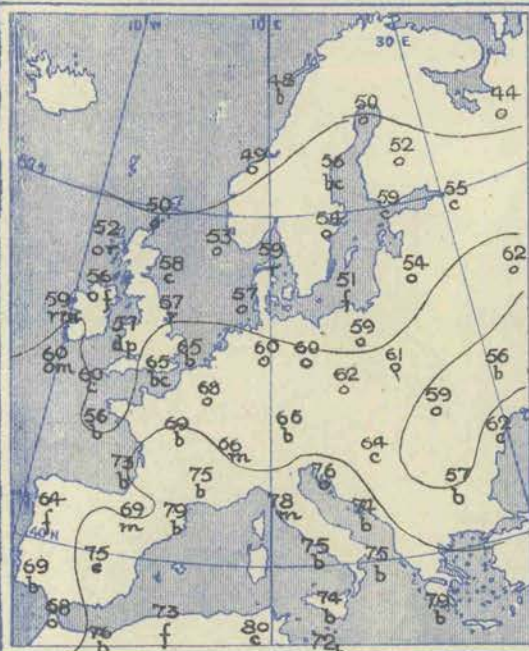
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over France, the Bay of Biscay, and the south and east of England, dull over central Europe, Russia and Scandinavia, rainy and unsettled over all the north-western parts of the British Islands. Rain later over Scotland, Ireland, and the north-west of England, sporadic falls over the south of Norway, the Netherlands and north Germany.

Temperature fallen over the North Sea, the Baltic and Sweden, risen over southern Europe. Morning readings ranging from 82° at Perpignan, 80° at La Calle and 79° at Patras, to 65° over central England, 44° at Archangel, 48° at Uleaborg, and 70° at Limoges and Bodø, and 50° at Sumburgh Head. Readings over Germany exceeding 60°. Rising later to 84° in London and at Frankfurt, 90° at Lorient, 93° at Lyons, 97° at Perpignan, 99° at Trieste, 104° at Annale, and 108° at Biskra. Not nearly so high over the northern parts of Germany.

Wind nearly calm (anticyclonic) over the Bay of Biscay, France, and the southern parts of our Islands; North-Easterly over the north of Russia; North-Westerly and Westerly over Germany; and South-Westerly, strong, in the north-west of Ireland. Shifting to West later in the latter districts, and becoming Easterly, light, in the north of Scotland—no well defined change elsewhere.

Barometer highest, 30.26 ins. at Scilly, and exceeding 30.1 ins. all over Ireland, England, France, and the western parts of Germany, as well as the Mediterranean. Lowest, 29.50 ins. at Moscow, and below 30.0 ins. in a new depression approaching the west of Scotland from the Atlantic. Latter depression moving eastwards later, that over Russia showing no material alteration.

Wednesday, 9th July.

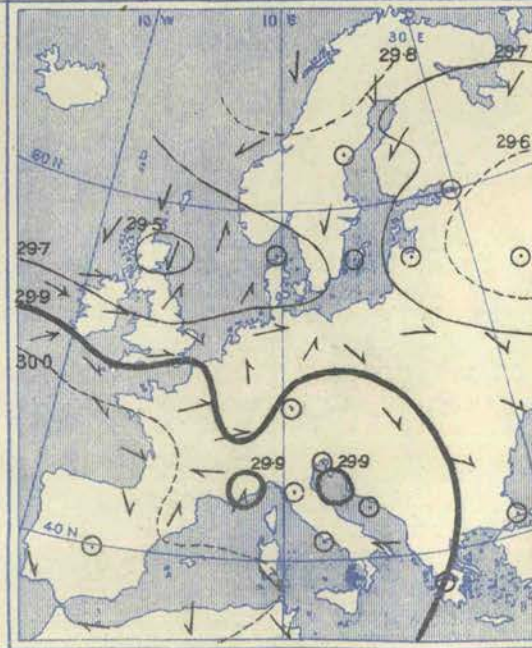
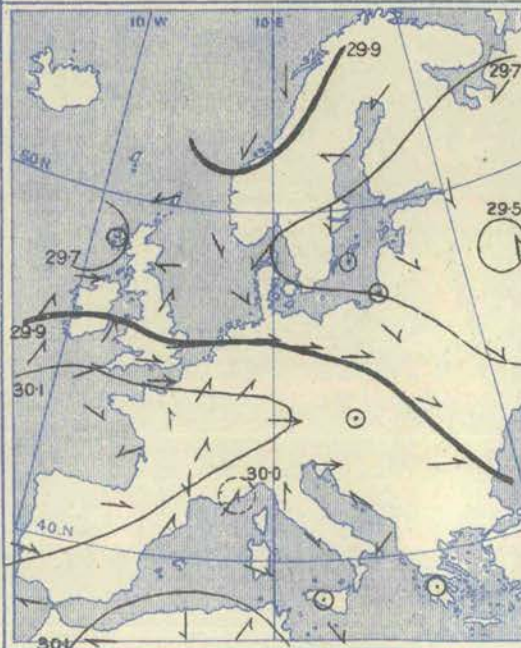
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the United Kingdom generally, with fog on several parts of our south-west coasts, as well as at Stornoway; rain falling in the north-east of Scotland, and passing showers at Malin Head. Fine at some of the English Channel stations and also over France and Italy; dull over the eastern and central parts of the Continent, with rain in Germany; fine in the western and northern parts of Scandinavia. Rain falling later over western and central Europe generally—heavily in places; thunderstorms occurring over the southern parts of France.

Temperature fallen generally, but risen in the north of England and also in the southern parts of France. Morning readings highest, 93° at Certe, 92° at Croisette, and 91° at Barcelona; above 75° at most of the Mediterranean and Adriatic stations. Lowest, 44° at Archangel, 45° at Kuopio, 47° at Bodø, and 49° at Sumburgh Head and Wick. Daily maxima below 60° on many parts of our western and extreme northern coasts, but thermometer exceeding 65° over eastern, central and southern England, and reaching 75° in London. Exceeding 90° in many places, and reaching 109° at Certe, Marseilles, and Croisette, and 101° at Perpignan.

Wind light to moderate from the Westward and South-Westward over Ireland, England, the Netherlands and Germany, but light from between South and East in the north and east of Scotland; Northerly or North-Easterly over Scandinavia and northern Russia. Light and variable over southern and south-eastern Europe. Subsequently veering to the North-Westward in Ireland, and shifting to the Northward or North-Eastward in Scotland; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in an anticyclone extending from the Atlantic over the Bay of Biscay, the north of Spain, and the greater part of France; 29.9 ins. and upwards in another high pressure system lying off the west of Norway. Lowest, 29.5 ins. and less in a cyclonic area over central Russia; 29.7 ins. and less in another depression off the west of Scotland. Latter disturbance subsequently moving eastwards and at the same time spreading southwards; barometer falling decidedly over western Europe generally.

Thursday, 10th July.

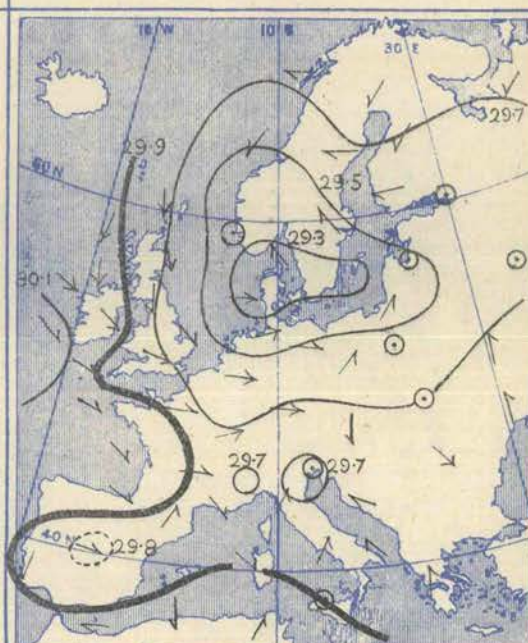
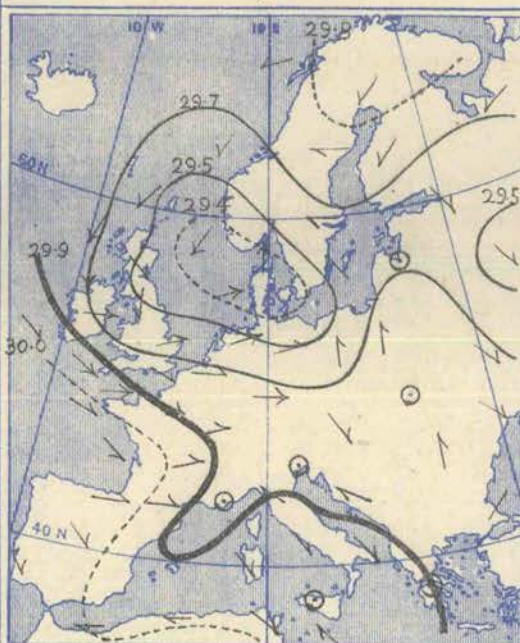
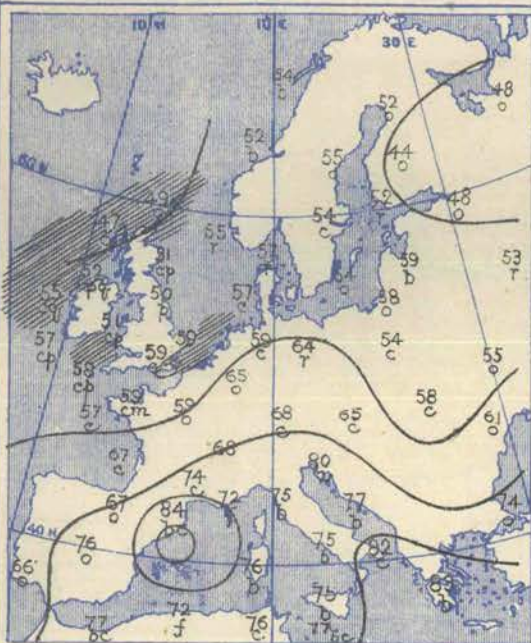
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with passing showers at several of our own northern stations, and steady rain over Denmark, north Germany and the south of Norway. Fine over Italy, Greece and the extreme south of France. Rain falling during the day over nearly the whole of western, northern and central Europe—heavily in places; thunderstorms occurring over England, and also in the south of France.

Temperature fallen in all but the southern and south-eastern countries. Morning readings highest, 93° at Barcelona, 83° at Athens, and 82° at Perpignan and Brindisi; above 75° at most of the Mediterranean and Adriatic stations. Lowest, (1) 44° at Kuopio, and 48° at Archangel and St. Petersburg; (2) 47° at Stornoway, 49° at Sumburgh Head, and 50° at Shields. Daily maxima below 60° at most of our own western and northern stations, and below 65° in all districts excepting the south-east of England. Thermometer exceeding 90° in many parts of southern Europe, and reaching 101° at Cagliari, and 102° at Madrid.

Wind moderate to strong from the Eastward or North-Eastward in Scandinavia, and from the North-Eastward or Northward in Scotland; North-Westerly in Ireland and France; Westerly over England and the Netherlands; South-Westerly in Germany; Southerly or South-Easterly over the Baltic. Light and variable over Russia, Austria, Italy and the Mediterranean. Subsequently veering to the North-Westward over England, and blowing strongly in many places; Easterly gale springing up in the south of Sweden.

Barometer highest, 30.0 ins. and upwards in a large area extending from the Atlantic over the Bay of Biscay, the Spanish Peninsula and a portion of Algeria; 29.8 ins. and upwards in the north of Scandinavia. Lowest 29.4 ins. and less in a complex and rather deep cyclonic disturbance with its centre off the west coasts of Denmark. Disturbance moving slowly eastwards during day, and barometer rising in all parts of the United Kingdom.

Friday, 11th July.

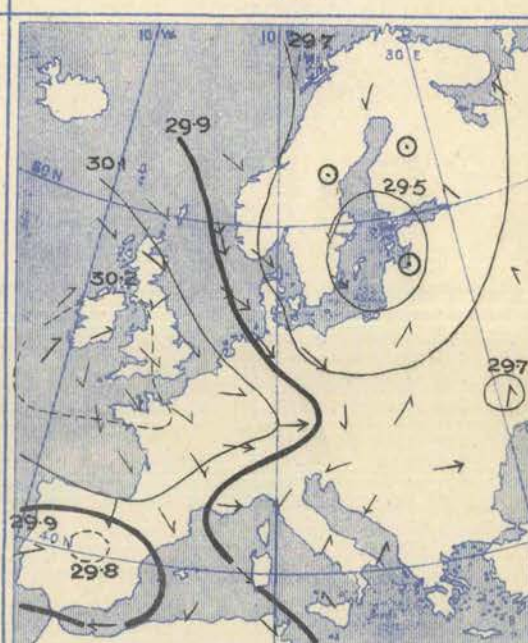
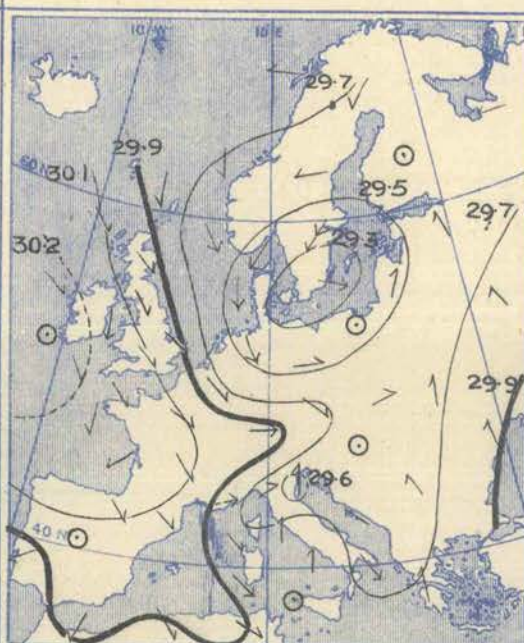
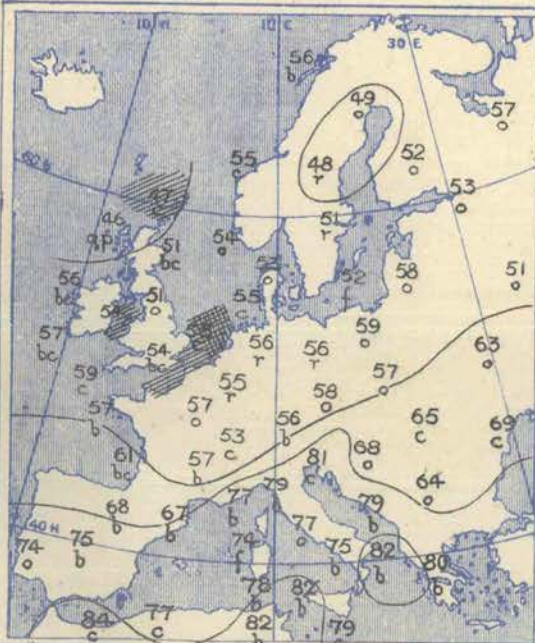
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in Ireland and most parts of southern Europe and the Mediterranean; cloudy or dull elsewhere, with rain at some Baltic and central European stations. Rain falling later in the extreme north-west of Ireland, in Sweden, the Netherlands and many parts of Germany and Austria-Hungary, and a thunderstorm occurring at Madrid.

Temperature at 8 a.m. highest, between 75° and 82° in many southern regions. Lowest, 46° at Stornoway, 47° at Sumburgh Head, 48° at Haparanda, 53° at Yarmouth and Oxford, and 54° in London and at Limoges. Rising during day to 65° in the south-east of England, 60° at Parsonstown, to 80° or above in the south of France, to 88° on the shores of the Adriatic, 95° and 96° respectively at Cagliari and Palermo, 102° at Tunis, and 106° at Aumale. Not rising above 55° at Aberdeen and Shields.

Wind at 8 a.m. showing two cyclonic circulations—one around the Baltic, and the other over the north of Italy and the Riviera. The North-Easterly and North-Westerly winds prevailing over Denmark and the south of Sweden, strong to a gale in force, and the North-Westerly currents over our Islands and the south-east of France fresh or strong. Moderate North-Easterly or Easterly winds over the south of Spain. Force of wind moderating over our Islands later, and direction becoming Southerly in the west of Ireland. Wind in the south of Spain shifting to the Westward.

Barometer at 8 a.m. highest, 30.2 ins. and upwards over the extreme west and south-west of our Islands. Lowest, 29.3 ins. and less in a disturbance over the Baltic; below 29.6 ins. in another system over the north of Italy, and below 29.8 ins. over the south-west of Spain. Baltic disturbance moving eastwards later, and that over Italy southwards. A depression appearing over central Spain—probably from the south-westward.

Saturday, 12th July.

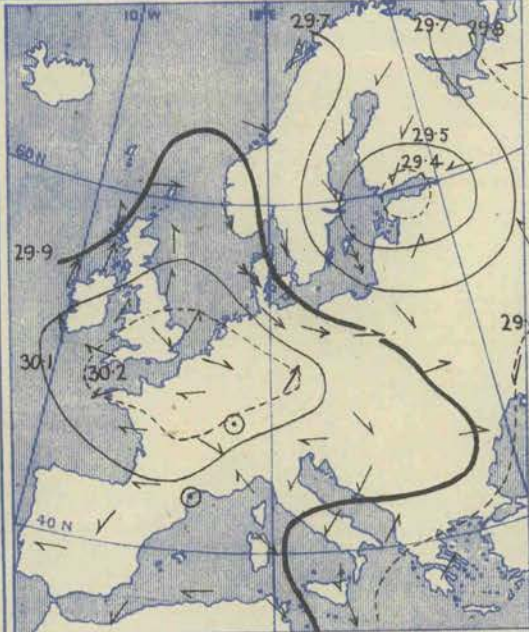
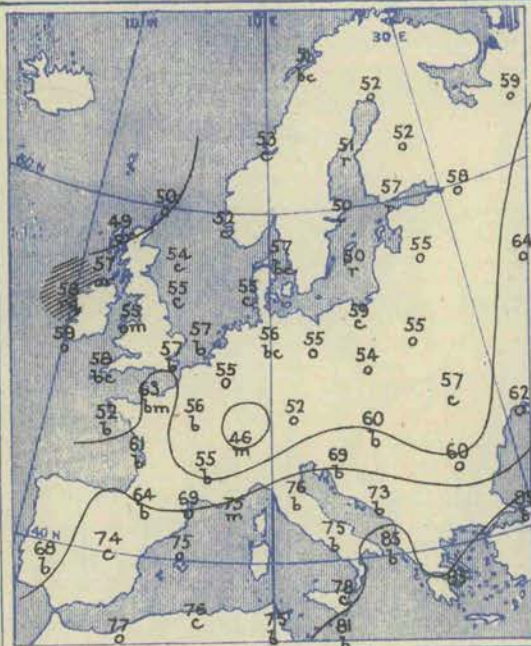
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull on our western and northern coasts, and over Russia and most parts of central Europe. Rainy over the Baltic, the Gulf of Finland, and also over the north of Ireland and in the Hebrides. Fine and bright elsewhere. Overcast skies and rain spreading over all our more northern districts during day, and rain becoming general over Sweden and Denmark, a thunderstorm occurring at Biarritz.

Temperature fallen over the central and southern countries. Readings at 8 a.m. highest, 85° at Athens and Brindisi, 82° at Aumale, 81° at Malta, and above 70° over southern Europe generally. Lowest, 46° at Belfort, 49° at Stornoway, 54° at Breslau and Cracow. Not touching 60° at several of our western and north-western coast stations during day, but rising to 72° in London, 73° at Lyons, 81° at Perpignan, 86° at Biarritz, and 88° at Rochefort.

Wind in morning light and anticyclonic over France, Spain, the Bay of Biscay, the greater part of England and the Netherlands. A complete cyclonic circulation prevailing over Scandinavia, Finland, and the major portion of Russia, the Northerly wind at Wisby blowing a gale. Fresh or strong Southerly winds setting in on our own north western coasts. Gale at Wisby subsiding later, but wind increasing to a gale from South-West in the north-west of Ireland, and veering towards West on our north-west coasts generally.

Barometer at 8 a.m. highest, 30.2 ins. and upwards in an anticyclone covering the south-west of Germany, the greater part of France, and the southern half of England. Lowest, 29.4 ins. and less in a disturbance over the Gulf of Finland and Riga, 29.7 ins. over the extreme south-east of Europe, and about 29.9 ins. in a system advancing towards our north-western coasts from the Atlantic. Barometer falling rather decidedly on our northern and north-western coasts during day, and anticyclone moving eastwards.

GENERAL NOTES.

At the commencement of last week a large anticyclone of somewhat irregular form covered the greater part of western and central Europe, and the weather in those regions was therefore mostly fair, a good deal of fog being, however, reported on our own western and southern coasts. In the extreme north-west of our Islands, where the weather was affected by a shallow cyclonic system lying off the north and north-west of Scotland, the sky was overcast, with rain in many places. The lowest pressures were found in a well-marked cyclonic disturbance over western Russia, where the weather was rainy; and, owing to this system, the wind in Sweden was strong from the northward or north-westward, with a gale at Wisby. On the 7th the anticyclone over western Europe gave way, while the Russian depression moved away to the north-eastward. Another high-pressure system soon advanced, however, from the Atlantic, and spread over nearly the whole of France, Spain, and the southern parts

of the United Kingdom. On the 9th and 10th the new anticyclone receded temporarily south-westwards, while a well-marked and rather deep cyclonic disturbance moved eastwards across Scotland and the North Sea, the progress of the latter system being attended by rain in nearly all parts of western Europe, and by very strong Westerly to North-Westerly winds on our own coasts, with a gale in the north-west. Later on, as the disturbance passed away to the Baltic and Russia, the anticyclone again spread from the Atlantic over nearly the whole of western Europe, and the weather consequently improved in all but our extreme northern and north-western districts, where it was affected by a shallow cyclonic area which skirted the Scotch coasts. At the end of the period this was travelling away to the north-eastward, but the anticyclone was also moving eastwards, and the general conditions over western Europe were becoming somewhat unsettled.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and — = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 164.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	14.7	- 18.3	12	- 15	WORKSOP	26.1	- 11.3	23	- 10	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	11.3	- 19.2	9	- 16	THURCASTON	42.0	+ 1.7	37	+ 2	SOUTHPORT	25.5	—	23	—
EDINBURGH	13.3	- 19.7	11	- 17	MARGATE	61.0	+ 16.0	54	+ 13	RHYL	24.3	—	21	—
MORPETH	30.7	—	26	—	BROADSTAIRS	65.4	—	58	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	18.0	—	15	—	EASTBOURNE	83.9	+ 31.4	75	+ 28	ABERDOVEY	42.7†	—	37†	—
YORK	24.8	- 14.6	21	- 14	BRIGHTON	85.6	+ 33.8	76	+ 29	TENBY	50.2	+ 11.2	52	+ 9
CROMER	48.1	—	42	—	WORTHING	83.1	—	74	—	NEWQUAY	51.7	+ 2.7	47	+ 3
LOWESTOFT	53.3	—	47	—	BOGNOR	82.0†	—	73†	—	TORQUAY	81.3	+ 30.9	73	+ 27
DUNMOW	59.3	—	52	—	WATERGATE	75.5	—	67	—	GUERNSEY	87.6†	+ 30.3	80†	+ 27
HOLLESLEY BAY	64.9	—	57	—	WESTBOURNE	79.6†	+ 28.9	71†	+ 25					
SHEFFIELD	37.4	—	33	—	VENTNOR HOSPITAL	78.6	+ 30.6	70	+ 27					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 29.]
Fourth Series.

WEEK ENDING SATURDAY, JULY 19TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 170.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	42	59.1	49.2	53.8	1 below	Day-deg. 83	Day-deg. - 4	Day-deg. 0	Day-deg. 0	Day-deg. 842	Day-deg. - 121	Day-deg. 660	Day-deg. + 91
	1. SCOTLAND, EAST	75	40	64.4	49.8	56.6	0 (average)	102	- 1	0	0	968	- 211	727	+ 109
	2. ENGLAND, N.E.	83	41	68.6	51.4	59.4	1 above	122	+ 7	0	0	1188	- 58	522	+ 13
	3. ENGLAND, EAST	86	44	71.7	51.6	61.0	0 (average)	133	+ 5	0	0	1416	- 66	516	- 41
	4. MIDLAND COUNTIES	85	41	71.3	49.0	59.4	0 (average)	122	- 2	0	0	1404	- 91	523	- 43
5. ENGLAND, SOUTH	87	42	73.1	53.1	62.4	2 above	143	+ 8	0	0	1458	- 160	358	- 55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	41	62.9	50.5	56.2	1 below	99	- 6	0	0	1179	- 79	483	+ 50
	7. ENGLAND, N.W.	75	45	64.8	51.2	57.5	2 below	109	- 8	0	0	1261	- 97	421	+ 6
	8. ENGLAND, S.W.	82	41	70.0	49.8	59.2	1 below	120	- 3	0	0	1446	- 88	324	+ 6
	9. IRELAND, NORTH	71	41	62.2	52.1	56.8	0 (average)	104	- 4	0	0	1178	- 175	339	- 28
	10. IRELAND, SOUTH	77	42	67.3	52.5	59.3	1 above	121	+ 4	0	0	1479	- 93	240	- 28
— CHANNEL ISLANDS		83	55	69.8	56.7	62.8	2 above	146	+ 12	0	0	1709	- 37	99	- 24

DISTRICTS. (See p. 170.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	1 less	141	+ 18	24.8	0.0	14	- 15	12	- 12	702	- 27	26	- 1	
	1. SCOTLAND, EAST	3	3	4 less	114	+ 10	12.7	- 2.8	24	- 13	20	- 11	732	- 77	28	- 3	
	2. ENGLAND, N.E.	3	1	5 less	98	+ 1	10.9	- 1.4	35	+ 1	31	0	789	- 15	30	0	
	3. ENGLAND, EAST	2	4	2 less	97	- 2	11.9	- 0.4	71	+ 25	64	+ 22	980	- 12	36	0	
	4. MIDLAND COUNTIES	2	1	5 less	93	- 1	12.0	- 2.0	61	+ 26	54	+ 23	824	+ 15	33	0	
5. ENGLAND, SOUTH	1	2	3 less	91	0	12.5	- 1.1	69	+ 19	62	+ 17	1010	- 12	37	- 1		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	3	5 less	128	+ 19	24.9	- 0.1	35	- 3	31	- 2	763	- 90	29	- 3	
	7. ENGLAND, N.W.	2	1	6 less	115	+ 14	14.4	- 1.9	47	- 6	42	- 5	904	+ 35	34	+ 1	
	8. ENGLAND, S.W.	1	6	1 less	102	- 2	15.7	- 4.0	76	+ 29	69	+ 26	954	- 64	37	- 2	
	9. IRELAND, NORTH	5	8	1 more	140	+ 21	19.1	+ 1.8	28	- 3	25	- 2	775	- 25	30	- 1	
	10. IRELAND, SOUTH	2	4	3 less	111	0	17.3	- 3.3	51	+ 16	45	+ 14	864	- 34	33	- 1	
— CHANNEL ISLANDS		3	5	1 less	108	+ 0.2	14.3	- 1.4	76	+ 20	70	+ 18	1066	- 83	42	- 3	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during the greater part of this week was extremely fine and dry over all the more southern parts of the Kingdom, but slight falls of rain occurred frequently in the far north and north-west, and by the end of the period, when the unsettled conditions had extended to all districts, heavy rain was experienced in many western and south-western localities. Thunderstorms prevailed over Scotland on Thursday, and thunder was heard over our eastern counties on Saturday.

Temperatures did not differ much from the mean generally, but was 2° above it in England S. and the Channel Islands. In some northern and western districts it was a little below it. The highest of the maxima were recorded on Monday, when they ranged from 87° in England S. 86° in England E., and above 80° in nearly all other English districts, to 70° in Scotland W., and 69° in Scotland N. At the end of the week the maxima at most northern and some western stations were below 80°. The lowest of the minima, which were registered on Saturday, varied from 40° in Scotland E., and 41° in widely different parts of the Kingdom, to 45° in England N.W., and to 55° in the Channel Islands.

Rainfall exceeded the mean in Ireland N., but was less than the normal in all other districts. In many English localities the fall was very slight.

Bright Sunshine was deficient over Scotland, the north of Ireland, and the north west of England, and only just equal to the normal amount in England N.E.; elsewhere, however, there was a large excess. The percentage of the possible duration ranged from 70 in the Channel Islands, 69 in England S.W., 64 in England E., and 62 in England S., to 31 in England N.E., and Scotland W., 25 in Ireland N., 20 in Scotland E., and 12 in Scotland N.

Barometer and Wind. At the commencement of the week pressure was relatively low both to the northward and south-westward of our Islands, and the wind consequently Westerly in the more northern districts, and Easterly in the south and south-west. The south-western low pressure, however, soon gave place to the eastern edge of an anticyclone extending from the Atlantic, and light Westerly or North-Westerly to Northerly winds became general. During the middle days of the week the high pressure spread slowly northwards and eastwards, but by Saturday morning the barometer was falling decidedly in the west and north, the wind had backed on our northern and north-western coasts, and by the evening a disturbance, secondary to the one over Scandinavia, had approached Ireland from the north-westward, and was increasing in depth.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.				
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
		Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).											
		Highest observed.	Lowest observed.	Of Highest each day.		Of Lowest each day.	For whole of each day.	Above 42°	Below 42°								
O. SCOTLAND, N.	Sunburgh Head	61	45	54.9	47.4	50.9	- 1.5	82	0	6	0.51	- 0.02	*	*	*	*	*
	Stornoway	66	42	60.3	47.6	53.5	- 0.9	81	0	5	0.47	- 0.20	18.6	- 13.1	16	- 11	
	Wick	69	42	61.1	48.3	54.3	- 0.9	86	0	6	1.30	+ 0.74	*	*	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*
	Glencarron	59	45	57.0	48.9	52.7	- 2.1	75	0	6	1.08	- 0.29	*	*	*	*	*
	Fort Augustus	66	46	62.0	51.4	56.3	- 0.2	100	0	4	0.28	- 0.42	11.5	- 10.0	10	- 9	
	Fort William	63	49	59.4	51.8	55.3	- 1.2	93	0	5	0.81	- 0.37	11.8	- 17.3	10	- 15	
1. SCOTLAND, E.	Nairn	71	44	63.9	50.1	56.5	- 0.6	102	0	5	0.75	+ 0.15	*	*	*	*	*
	Aberdeen	75	42	64.4	50.2	56.9	- 0.1	104	0	3	0.41	- 0.23	22.7	- 14.9	19	- 12	
	Braemar	66	40	60.8	48.5	54.2	- 0.3	85	0	3	0.25	- 0.38	*	*	*	*	*
	Ochertyre	70	43	66.9	49.7	57.7	- 0.4	110	0	3	0.16	- 0.54	*	*	*	*	*
	Leith	72	48	66.4	52.4	58.9	+ 0.3	118	0	1	0.10	- 0.49	*	*	*	*	*
	Marchmont	70	43	63.9	47.9	55.3	- 1.4	93	0	2	0.07	- 0.70	30.5	- 8.2	26	- 7	
2. ENGLAND, N.E.	Alnwick Castle	75	45	67.7	50.9	58.7	+ 1.4	117	0	2	0.07	- 0.56	*	*	*	*	*
	Durham	75	46	67.6	50.4	58.4	- 0.6	115	0	3	0.09	- 0.54	39.0	+ 1.5	34	+ 1	
	Shields	74	48	66.4	52.4	58.9	+ 1.2	118	0	2	0.10	- 0.47	*	*	*	*	*
	Scarborough	78	47	70.0	51.2	60.0	+ 0.9	126	0	4	0.18	- 0.42	46.5	—	41	—	
	Spurn Head	72	50	66.1	54.4	59.8	+ 0.1	125	0	1	0.08	- 0.28	*	*	*	*	*
	Fullbeck (Lincolnshire)	83	41	73.5	48.8	60.3	+ 0.1	128	0	3	0.04	- 0.49	*	*	*	*	*
3. ENGLAND, E.	Hillington	83	49	73.0	51.3	61.4	+ 0.7	136	0	3	0.74	+ 0.10	62.8	+ 18.2	56	+ 16	
	Yarmouth	76	51	66.3	55.1	60.3	0.0	128	0	3	0.49	- 0.11	*	*	*	*	*
	Geldeston	84	46	71.5	50.3	60.2	- 0.2	127	0	2	0.16	- 0.40	68.2	+ 20.7	61	+ 18	
	Cambridge	86	45	76.8	50.7	62.8	+ 1.3	146	0	2	0.08	- 0.46	76.8	+ 31.0	69	+ 27	
	Felixstowe	75	49	69.7	53.2	60.9	0.0	132	0	1	0.77	—	75.5†	—	67†	—	
	Rothamsted	81	44	73.1	48.8	60.1	- 0.3	127	0	1	0.11	- 0.45	77.4	+ 29.7	69	+ 26	
4. MIDLAND COUNTIES	Harrogate	75	46	67.3	49.3	57.7	- 0.3	110	0	3	0.13	- 0.48	44.8	—	39	—	
	Bawtry (Hesley Hall)	81	47	70.7	48.6	58.9	- 1.2	118	0	1	0.03	- 0.55	*	*	*	*	*
	Loughborough	83	47	73.7	49.0	60.5	- 0.9	130	0	2	0.09	- 0.41	*	*	*	*	*
	Colly Weston (Stamford)	85	45	74.6	50.6	61.8	+ 0.6	139	0	2	0.07	- 0.48	*	*	*	*	*
	Cheadle	79	46	66.9	49.9	57.8	- 0.1	111	0	2	0.06	- 0.61	*	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	81	48	70.2	51.6	60.3	+ 0.5	128	0	2	0.09	- 0.51	57.4	—	51	—	
5. ENGLAND, S.	Churchstoke	81	41	69.8	44.7	56.4	- 1.7	101	0	2	0.06	- 0.48	78.8	+ 36.5	70	+ 32	
	Hereford	81	42	72.4	46.1	58.3	- 2.2	114	0	1	0.09	- 0.41	*	*	*	*	*
	Cirencester	82	43	73.6	47.6	59.7	+ 0.1	124	0	1	0.06	- 0.58	71.7	+ 27.1	64	+ 24	
	Oxford	84	47	74.0	52.3	62.4	+ 1.3	143	0	1	0.04	- 0.51	75.8	+ 30.5	68	+ 27	
	London	87	45	77.0	52.7	64.0	+ 1.4	154	0	1	0.04	- 0.47	64.7†	+ 22.5†	58†	+ 20†	
	Swarraton (Alresford)	82	42	73.7	47.0	59.4	0.0	122	0	1	0.12	- 0.45	*	*	*	*	*
6. SCOTLAND, W.	Dungeness	74	46	69.3	53.7	61.0	- 0.2	133	0	1	0.02	- 0.34	63.1	—	57	—	
	Hastings (St. Leonards)	77	49	72.1	55.5	63.2	+ 2.3	148	0	1	0.15	- 0.35	66.5	+ 14.0	60	+ 12	
	Southampton	85	46	78.2	52.7	64.6	+ 2.4	158	0	2	0.40	- 0.17	71.6	+ 22.1	65	+ 20	
	Portland Bill	73	50	68.3	55.7	61.6	+ 2.1	137	0	1	0.40	—	*	*	*	*	*
	Shaftesbury	80	49	73.0	54.3	63.0	+ 4.0	147	0	2	0.53	- 0.12	*	*	*	*	*
	Laudale (Loch Sunart)	66	47	61.3	52.0	56.3	- 0.8	100	0	—	0.72	- 0.44	*	*	*	*	*
7. ENGLAND, N.W.	Glasgow	65	45	61.7	51.8	56.4	- 1.1	101	0	4	0.20	- 0.55	25.2	- 7.1	22	- 6	
	Cally	70	41	65.2	47.5	55.7	- 1.4	96	0	4	0.26	- 0.61	*	*	*	*	*
	Douglas (Isle of Man)	69	48	63.2	50.6	56.5	- 0.8	102	0	3	0.14	- 0.53	45.4	+ 0.6	40	0	
	Newton Reigny	75	46	7	49.0	56.3	- 1.2	100	0	—	0.12	—	30.2	—	26	—	
	Stonyhurst	73	48	64.5	50.5	57.0	- 1.4	105	0	1	0.04	- 0.90	40.7	+ 0.7	36	+ 1	
	Blackpool	68	45	63.6	51.6	57.2	- 2.3	106	0	1	0.02	- 0.65	44.6	+ 3.3	39	+ 3	
8. ENGLAND, S.W.	Manchester (Prestwich)	72	49	67.3	49.8	57.9	- 0.8	111	0	1	0.01	- 0.79	35.0	—	31	—	
	Liverpool Obsy. (Bidston)	68	51	63.6	53.4	58.1	- 1.8	113	0	1	0.06	- 0.56	51.1	—	45	—	
	Chester	73	46	66.4	49.7	57.5	- 2.5	109	0	1	0.07	—	*	*	*	*	*
	Llandudno	72	51	66.9	52.7	59.3	- 0.8	121	0	2	0.15	- 0.40	54.8	+ 14.1	49	+ 13	
	Holyhead	68	50	61.6	52.9	57.0	- 1.7	105	0	2	0.32	- 0.23	*	*	*	*	*
	Llandoverly	82	41	73.6	43.6	57.6	- 1.6	109	0	1	0.32	- 0.55	*	*	*	*	*
9. IRELAND, N.	Pembroke	64	52	61.9	54.4	57.9	- 0.5	111	0	1	0.62	+ 0.07	69.7	+ 23.3	62	+ 21	
	Clifton	82	49	73.0	53.4	62.5	+ 1.6	144	0	1	0.17	- 0.49	*	*	*	*	*
	Bath	81	45	72.4	49.0	59.9	- 1.5	125	0	1	0.13	—	78.4	—	71	—	
	Arlington (N. Devon)	74	44	67.9	46.9	56.7	- 2.0	103	0	1	1.22	+ 0.25	*	*	*	*	*
	Cullompton	82	42	73.9	46.3	59.1	- 1.9	120	0	1	0.70	+ 0.06	69.4	+ 27.1	63	+ 24	
	Falmouth	71	49	67.1	53.6	59.9	- 0.2	125	0	1	0.80	+ 0.13	86.4	+ 35.1	79	+ 32	
10. IRELAND, S.	Plymouth	76	48	70.3	51.4	60.2	- 1.0	127	0	1	0.57	- 0.03	82.5	+ 35.3	75	+ 32	
	Malin Head	61	50	59.0	53.0	55.8	- 1.2	97	0	6	1.08	+ 0.42	*	*	*	*	*
	Edenfel (Omagh)	66	45	62.3	51.9	56.7	0.0	103	0	6	1.16	+ 0.42	*	*	*	*	*
	Blacksod Point	63	48	61.3	53.6	57.2	- 0.6	106	0	6	0.46	- 0.21	*	*	*	*	*
	Markree Castle	66	41	62.8	50.7	56.3	- 0.5	100	0	5	0.32	- 0.49	29.1	- 0.1	26	0	
	Armagh	71	46	64.8	52.1	58.0	+ 0.3	112	0	4	1.11	+ 0.41	26.1	- 5.7	23	- 5	
CHANNEL ISLANDS	Donaghadee	69	47	63.1	51.4	56.8	- 0.6	104	0	3	0.80	+ 0.16	*	*	*	*	*
	Dublin	75	49	68.5	55.3	61.4	+ 1.4	136	0	3	0.70	+ 0.13	47.7	+ 10.1	42	+ 9	
	Parsonstown	75	42	68.0	51.1	59.0	+ 0.6	119	0	4	1.37	+ 0.71	47.5	+ 16.0	42	+ 14	
	Kilkenny	77	45	69.3	50.3	59.1	+ 0.1	120	0	1	0.23	- 0.35	*	*	*	*	*
	Roche's Point	72	46	66.6	51.3	58.4	- 1.0	115	0	1	0.03	- 0.64	*	*	*	*	*
	Valencia	66	52	63.7	54.6	58.8	+ 0.2	118	0	2	0.09	- 0.79	58.1	+ 23.2	52	+ 21	
CHANNEL ISLANDS	Killarney	75	46	69.7	51.5	60.0	+ 1.8	126	0	1	0.04	- 0.74	*	*	*	*	*
	Foynes	69	49	65.2	53.1	58.7	+ 0.9	117	0	2	0.24	- 0.45	*	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	75	55	66.7	56.1	61.0	+ 0.6	133	0	2	0.36	- 0.16	77.7	—	71	—	
	Jersey	83	55	72.9	57.3	64.6	+ 2.4	158	0	3	0.55	+ 0.02	77.6	+ 22.6	72	+ 21	

* Stations Marked $\mathcal{M}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

† An Asterisk is inserted in all places for which the information is not usually received.

‡ The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Records are in use.

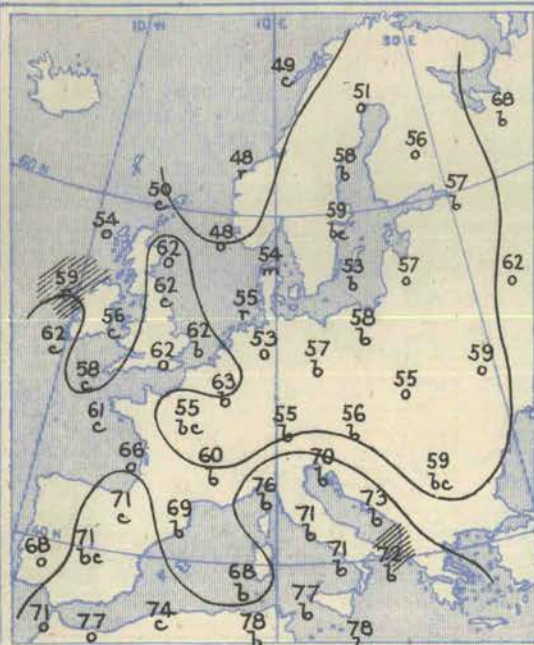
§ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 13th July.

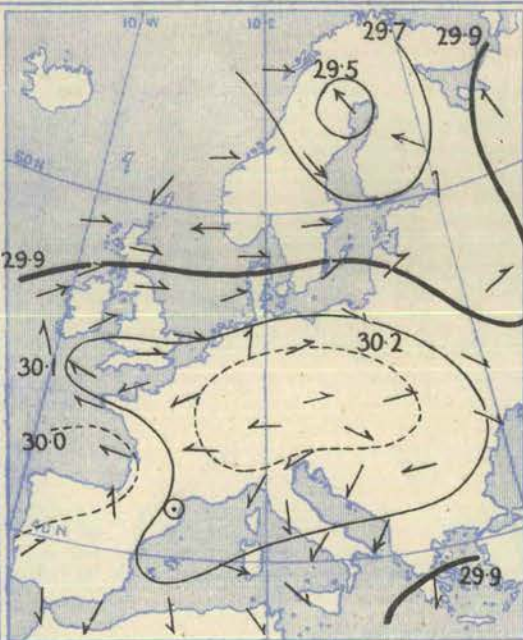
Temperature and Weather.

8 a.m.

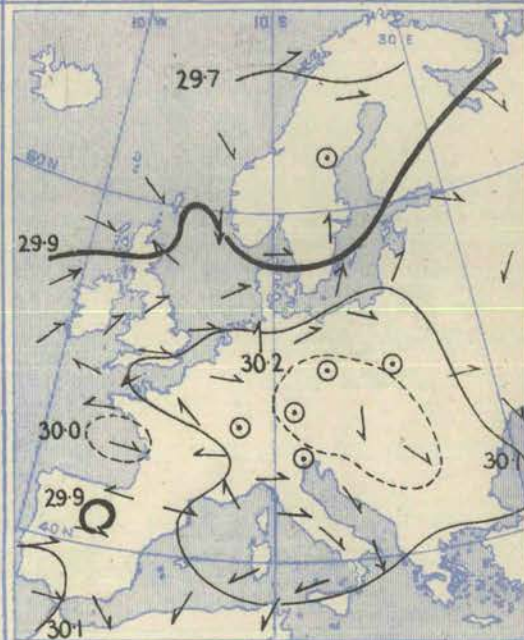


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in most southern regions, but cloudy or dull in most other parts of our area, with rain at Christiansund, Fano, and in the north-west and north of Ireland. Slight rain falling later at a few of our own north-western and northern stations, and in Scandinavia, and rather larger amounts over Finland and Russia.

Temperature risen in most localities, fallen in Italy. Readings at 8 a.m. ranging from 85° at Patras, 78° at Malta and La Calle, and 77° at Barcelona and Cape Sicié, to 68° at Archangel, 62° in several parts of the United Kingdom and at Moscow, to below 60° at Paris and in most parts of central and northern Europe, and to 48° on the west coast of Norway. Subsequently rising to 97° at Madrid, to between 80° and 90° over southern Europe and the Mediterranean generally, to between 70° and 80° over the greater part of our Islands, but not exceeding 52° in the Shetlands and the west of Norway.

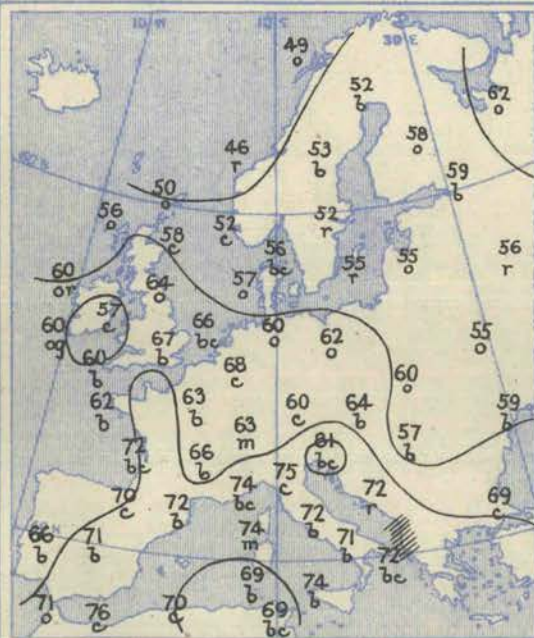
Wind at 8 a.m. light and anticyclonic over the major portion of Europe, but cyclonic over Finland and Scandinavia, off our northern coasts, over Greece, and the Bay of Biscay. Light or moderate in force as a whole, but South-Westerly wind fresh at Blackod Point, and North-Easterly wind blowing a gale at Athens. A separate cyclonic circulation setting in over Spain by evening, and the gale at Athens subsiding. No other important change.

Barometer in morning highest, above 30.2 ins., in a large anticyclone covering the whole of central Europe. Lowest, 29.5 ins. and less, in a disturbance over the extreme north of the Gulf of Bothnia; below 29.8 ins. in a shallow system to the northward of Scotland; below 29.9 ins. over Greece; and below 30.0 ins. over the Bay of Biscay. Northern depression moving away northwards later, and a well-defined baric minimum forming over central Spain.

Monday, 14th July.

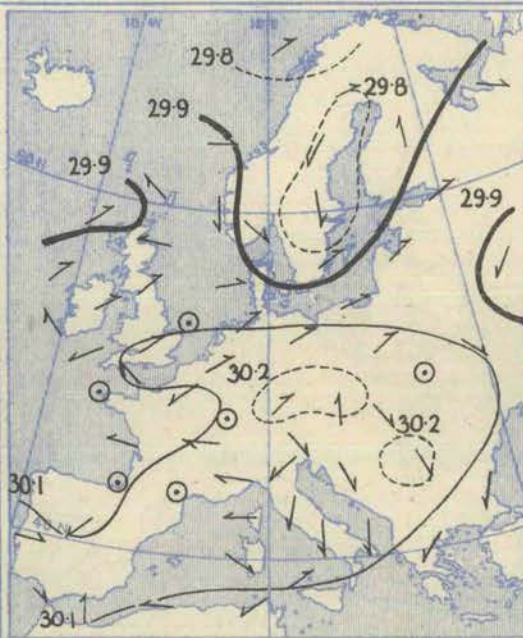
Temperature and Weather.

8 a.m.

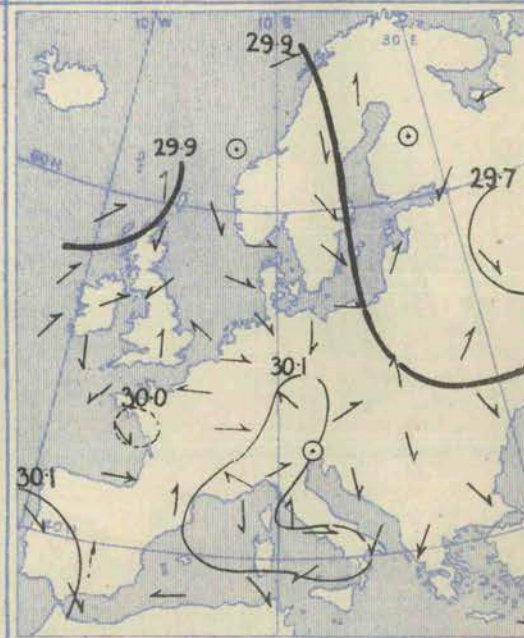


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the southern parts of our Islands and over central and southern Europe; unsettled in the more northern regions, with rain in the north of Ireland, in several Scandinavian districts, and also at Warsaw and Moscow. Rain falling, in slight amounts, at some western French, and a few of our own northern stations later, and considerable quantities in different parts of Russia. A thunderstorm and heavy rain occurring at Bilbao.

Temperature again risen generally. Readings at 8 a.m. highest, 81° at Trieste and Patras, 77° at Cape Sicié, and above 70° over the countries bordering the Mediterranean generally. Highest in our Islands, 73° at Jersey, and 69° at Dungeness. Lowest, 46° at Christiansund, 49° at Bodo, 50° in the Shetlands, 52° at Haparanda and Stockholm, and 54° at Warsaw. Rising during day to 84° at Oxford, 87° in London, 88° at Florence, and Rome, 91° at Paris, 94° at Lyons, 96° at Le Mans, and to 102° at Aumale.

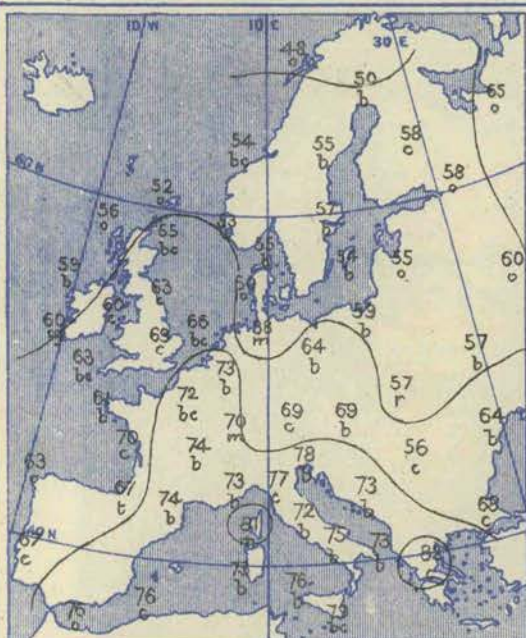
Wind at 8 a.m. light and anticyclonic over the greater part of central and southern Europe; light and irregularly cyclonic elsewhere. Anticyclonic circulation becoming less well marked during day, but no great change over Europe as a whole.

Barometer in morning, 30.1 ins. to 30.2 ins. and upwards in a large anticyclone lying over central and south-western Europe, and the western half of the Mediterranean. Lowest, 29.8 ins. and less in an elongated disturbance over the Gulf of Bothnia; below 29.9 ins. in another system over the north of Scotland, and in a third near Moscow; below 30.0 ins. near Lorient. Disturbances all moving south-eastwards or eastwards later, and high pressure area decreasing both in size and intensity, and becoming less regular in form.

Tuesday, 15th July.

Temperature and Weather.

8 a.m.

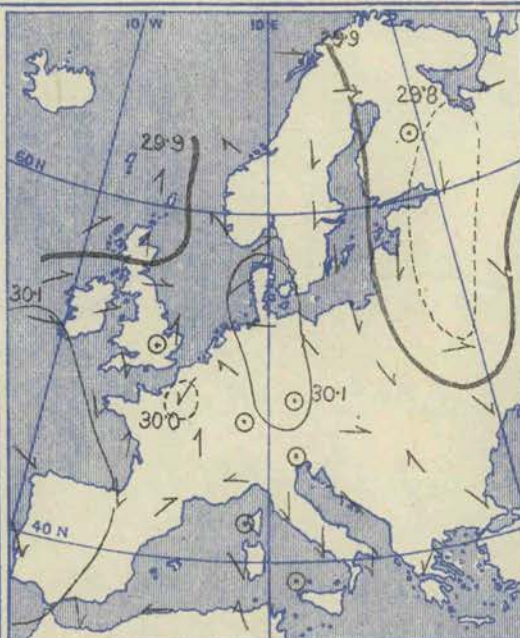


Weather in morning fine and bright as a whole, but thunderstorms prevailing at Bilbao and Biarritz, cloudy or overcast skies over the greater part of Russia and the north of Scotland, with rain at Nairn. Thunderstorms, accompanied by heavy rain, occurring in several French departments during day, and some rain falling in a few Scandinavian and Russian localities.

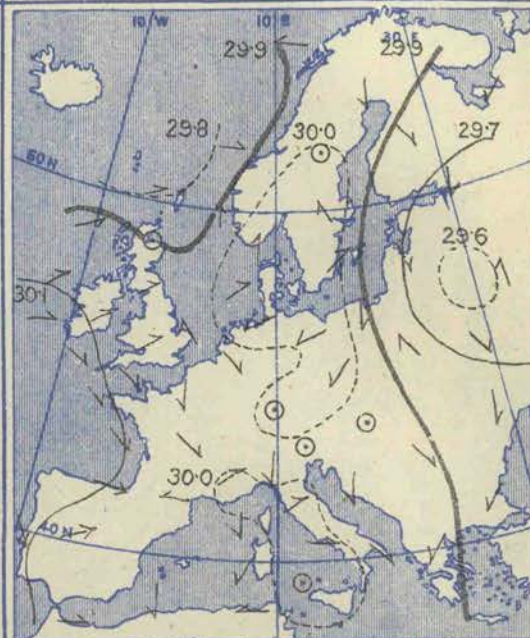
Temperature changed irregularly, but risen in most places. 8 a.m. readings highest, 85° at La Calle, 82° at Athens, 81° at Sanguinaire, and above 70° over France, southern Europe, and the Mediterranean generally; 69° in London, and 65° at Archangel. Lowest, 48° at Bodø, 52° in the Shetlands, 53° at Skudesnaes, 54° at Wisby, and below 60° in many parts of Hungary and Russia. Highest maximum during day, 104° at Aumale, but thermometer rising to 96° at Lyons, to 92° at Turin and Florence, to 91° at Frankfurt, and to above 81° at most southern stations, and also over central England.

Barometer and Wind.

8 a.m.



6 p.m.



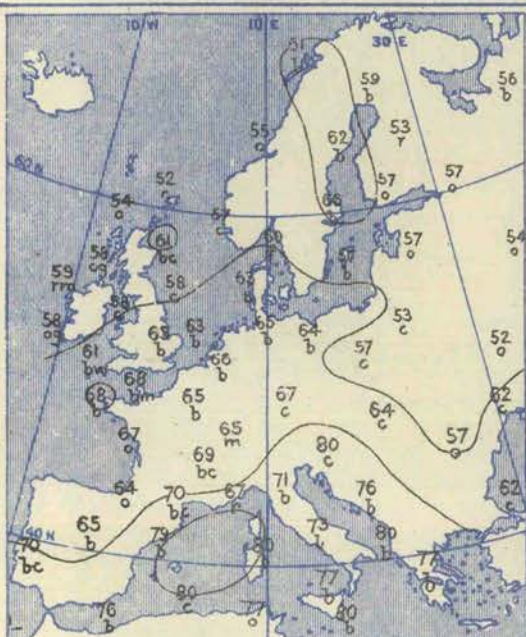
Wind light and irregularly anticyclonic over central Europe and Denmark, and also over the extreme south-west of our area. Several partial or complete cyclonic circulations of light winds in the other regions. Not much change later, but Northerly cyclonic movement over Finland and the Baltic Provinces becoming stronger in force.

Barometer at 8 a.m. highest, 30.1 ins. and above in an elongated anticyclone extending from south Germany to the north of Denmark, and also in another system covering Spain, the Bay of Biscay, and stretching northwards to the south-west of Ireland. Lowest, 29.8 ins. and less in a disturbance over Russia, and below 29.9 ins. in another over and to the northward of Scotland. Two other, but small, systems—one near Paris, and the other near Barcelona. Western high pressure area extending northwards and eastwards later, and Russian disturbance growing deeper.

Wednesday, 16th July.

Temperature and Weather.

8 a.m.

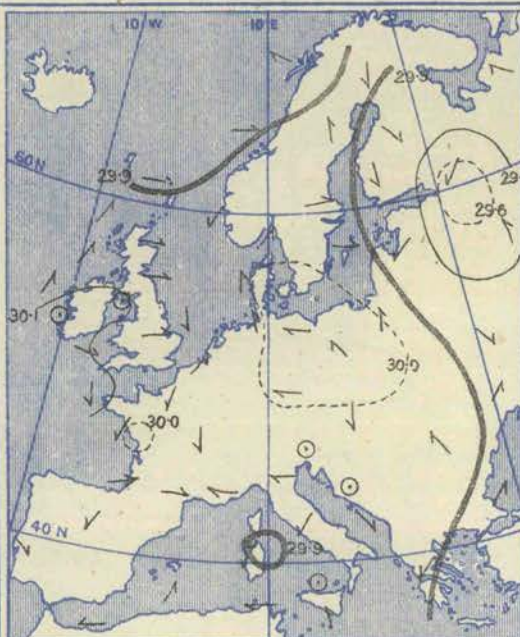


Weather in morning fine over western, central, and southern Europe generally, but dull in Ireland and the west of Scotland, with rain at Blacksod Point; dull also at some of the southern French stations, with rain at Nice and a thunderstorm at Toulon. Cloudy or dull in Russia and Austria, and rainy at Kuopio. A little rain falling later in Ireland and the west and north of Scotland; thunderstorms and heavy rain occurring over the central and southern parts of France, the amount measured next morning being as large as 1.9 ins. at Clermont, and 1.4 ins. at Nice, and 1.1 ins. at Besançon.

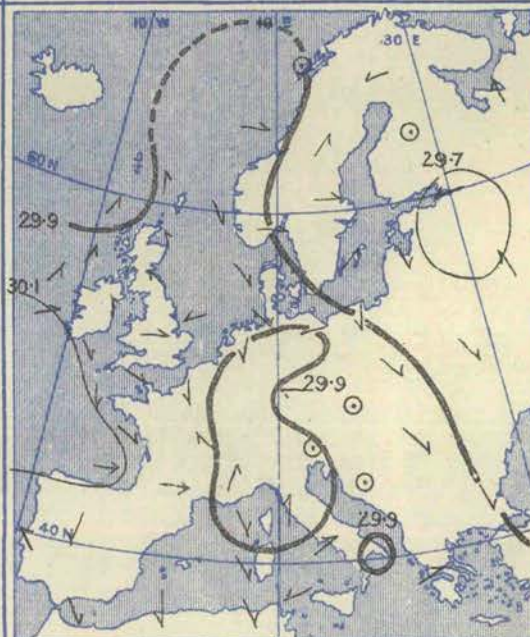
Temperature fallen in most parts of western Europe, and also in Russia, Austria, and northern Italy. Morning readings highest, 80° at Trieste, Brindisi, Cagliari, and Algiers, and 79° at Barcelona and Oran; above 70° at most of the Mediterranean and Adriatic stations. Lowest (1) 52° at Sumburgh Head and 54° at Stornoway and Donaghadee; (2) 52° at Kiev, 53° at Kuopio, and 54° at Moscow. Rising during day to between 70° and 75° over the southern parts of England, and to 76° in London; exceeding 85° in many parts of southern Europe, and reaching 93° at Palermo and Sanguinaire.

Barometer and Wind.

8 a.m.



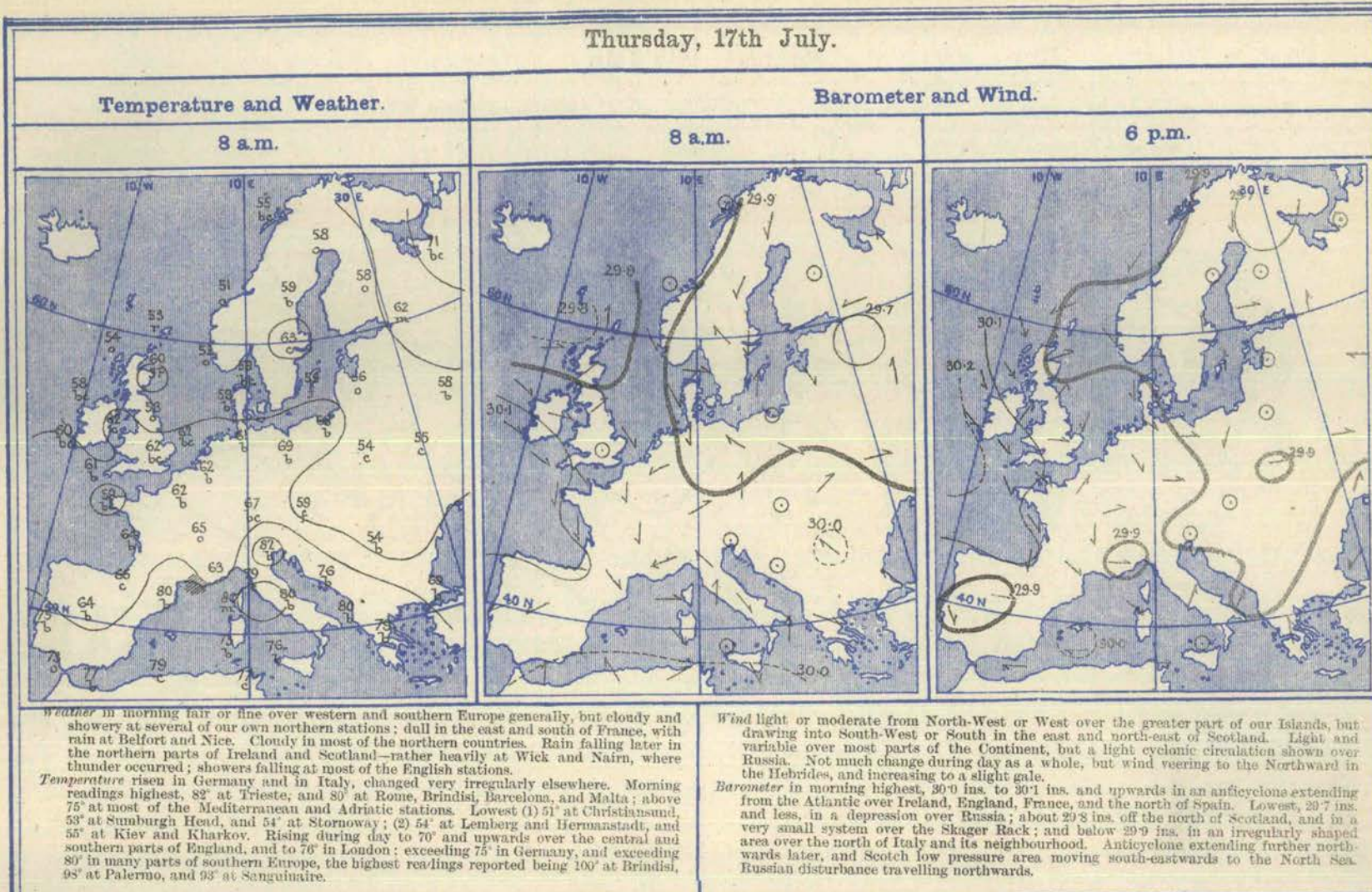
6 p.m.



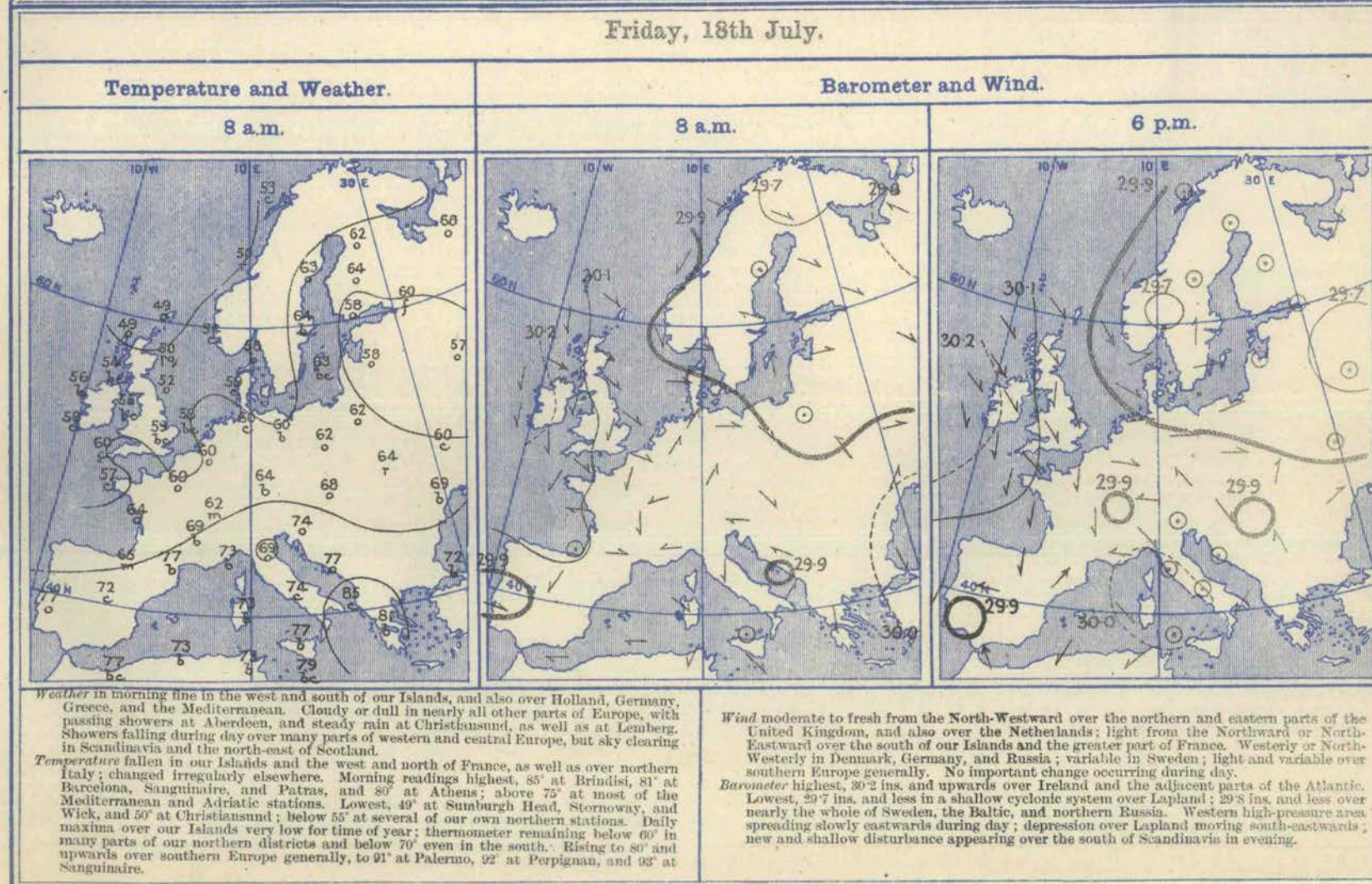
Wind light from the Westward or South Westward over Ireland and the northern parts of Great Britain, but Northerly over the Netherlands and the east of England, and North-Easterly over the Channel and the north of France. Southerly in Denmark and the south of Sweden; calm or variable in Germany and Austria; Northerly or North-Westerly in Spain and Italy; variable in the south of France. Subsequently backing to the Southward in the east of Scotland; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards to 30.0 ins. in an anticyclone lying over the greater part of our Islands and the north and west of France; 30 ins. and upwards in another system over Denmark and Germany. Lowest, 29.6 ins. and less in a well-marked cyclonic area over the north-west of Russia. Anticyclone over our islands subsequently moving south-westwards, and new depression appearing off the north-west of Scotland.

Thursday, 17th July.



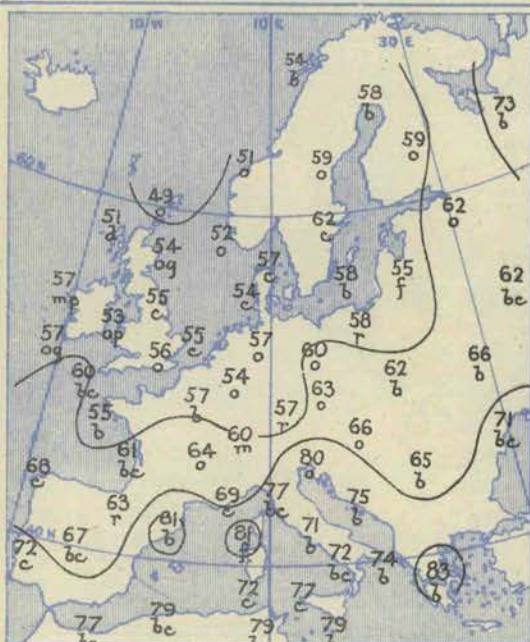
Friday, 18th July.



Saturday, 19th July.

Temperature and Weather.

8 a.m.

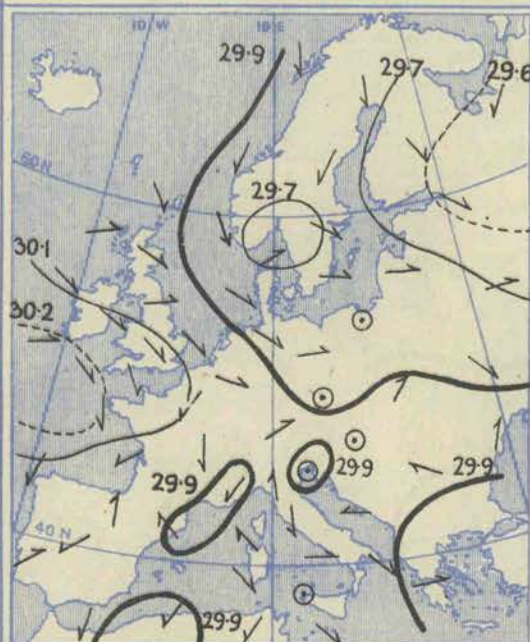


Weather line over the greater part of England, France, and southern and eastern Europe, but dull in the south of France, with rain at Biarritz. Cloudy or dull elsewhere, with rain in Ireland and the west and north of Scotland, and also at Munich. Rain falling during day in most parts of western and central Europe—heavily in central Ireland and also in the extreme south of France.

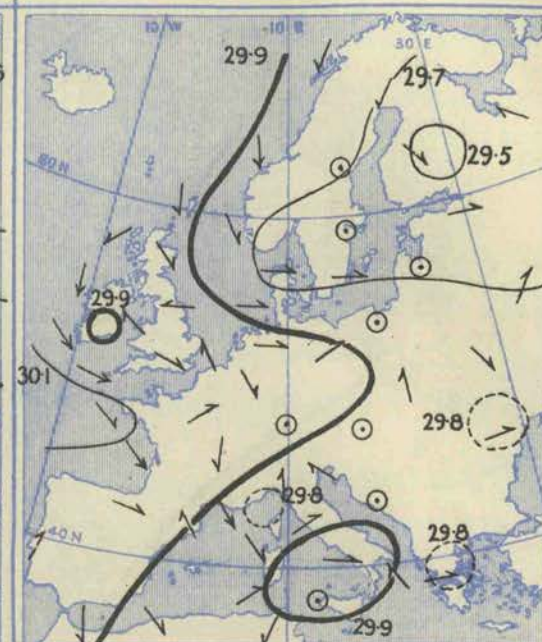
Temperature fallen generally, but risen over the northern parts of Great Britain. Morning readings highest, 83° at Athens, 81° at Barcelona and Sanguinaire, and 80° at Trieste; above 75° at most of the Mediterranean and Adriatic stations—and as high as 73° at Archangel. Lowest, 47° at Wick, 49° at Sumburgh Head, and 51° at Christiansund, Stornoway, and Parsonstown; below 55° over the northern parts of the United Kingdom generally. Daily maxima below 60° at many of our own western, northern, and eastern stations, and below 65° even at many places in the south. Thermometer exceeding 80° over southern Europe, and reaching 84° at Brindisi, and 100° at Sanguinaire.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light to moderate from the Westward or South-Westward in Ireland and the west of Scotland, and from the North-Westward over Great Britain, the Netherlands, and the eastern shores of the North Sea. Northerly or North-Easterly over the northern parts of Scandinavia, but North-Westerly in Finland, and Westerly over the Baltic and western and central Russia; calm in Austria; variable over southern Europe generally. Subsequently veering to the North-Westward or Northward in Ireland, and shifting to the North-Eastward in Scotland; no important change occurring elsewhere.

Barometer highest, 30.2 ins. at Valencia (Ireland) and Scilly; 30.0 ins. and upwards in an anticyclone covering the whole of Ireland and England, the greater part of France, and the north of Spain. Lowest, 29.6 ins. and less in a shallow cyclonic area over northern Russia; 29.7 and less in another area over the south of Scandinavia; distribution of pressure very irregular over southern Europe and the Mediterranean. New cyclonic system advancing over Ireland later from the north-westward, and subsequently moving south-eastwards across the Bristol and English Channels.

GENERAL NOTES.

At the commencement of the week a large anticyclone covered the greater part of central and southern Europe, its north-western limb extending in the form of a ridge over the Channel and the south of England; the weather in all these regions was therefore fair, warm, and dry, with light winds chiefly from points between north and east. Over the northern parts of our islands and the Continent, where the conditions were influenced by cyclonic systems which advanced over Scandinavia from the Atlantic, the winds were mostly Westerly, and the weather rather changeable, with occasional rain.

On the 14th and 15th the anticyclone gradually broke up, and for the remainder of the week the distribution of pressure over the central and southern countries was rather complex, the

development of shallow depressions over France being attended by frequent thunderstorms and heavy falls of rain, especially in the south of that country. A new anticyclonic system now appeared off our own west and south-west coasts, while shallow cyclonic systems moved eastwards or north-eastwards outside the north-west and north of Scotland, so that while the weather in our southern districts continued fine, it was far less settled in the north and north-west, rain being frequent and at times rather heavy. At the close of the week a well-marked depression advanced over Ireland from the north-westward and moved south-eastwards to France. During its progress rain fell in nearly all districts, while in its rear the wind shifted to the northward, with a decided fall of temperature.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ————— = a gale; ————— = a fresh to strong breeze; ————— = a light to moderate breeze; and ○ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 170.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESSE - - - -	15.2	- 17.0	13	- 14	WORKSOP - - - -	45.2	+ 8.0	40	+ 7	BOURNEMOUTH - - -	-	-	-	-
STRATHPEPPER SPA -	14.0	- 14.8	12	- 12	THURCASTON - - -	66.7	+ 26.6	59	+ 24	SOUTHPORT - - - -	50.5	-	44	-
EDINBURGH - - - -	17.8	- 14.8	15	- 13	MARGATE - - - -	70.4	+ 24.9	63	+ 22	RHYL - - - -	51.5	-	46	-
MORPETH - - - -	26.8	-	23	-	BROADSTAIRS - - -	79.0	-	71	-	COLWYN BAY - - -	-	-	-	-
NEWCASTLE-ON-TYNE -	28.0	-	24	-	EASTBOURNE - - -	68.5	+ 15.9	62	+ 14	ABERDOVEY - - -	66.8	-	59†	-
YORK - - - -	-	-	-	-	BRIGHTON - - - -	70.1	+ 18.1	63	+ 16	TENBY - - - -	73.4	+ 26.8	66	+ 24
CROMER - - - -	60.3	-	53	-	WORTHING - - - -	68.5	-	62	-	NEWQUAY - - - -	70.2	+ 21.9	64	+ 20
LOWESTOFT - - - -	72.1	-	64	-	BOGNOR - - - -	70.7†	-	64†	-	TORQUAY - - - -	80.5	+ 31.0	73	+ 28
DUNMOW - - - -	75.9	-	68	-	WATERGATE - - -	65.3	-	59	-	GUERNSEY - - - -	73.3†	+ 16.3	68†	+ 15
HOLLESLEY BAY - - -	73.5	-	66	-	WESTBOURNE - - -	66.1†	+ 15.5	60†	+ 14					
SHEFFIELD - - - -	50.1	-	44	-	VENTNOR HOSPITAL -	69.0	+ 20.6	62	+ 18					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, JULY 26TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 176.)		Temperature of the Air.														
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.								
		Highest.	Lowest.	Averages of				For the Week.				From December 20th, 1901.				
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	65	38	55.8	44.0	49.5	6 below	Day-deg. 53	Day-deg. -35	Day-deg. 0	Day-deg. 0	Day-deg. 895	Day-deg. -156	Day-deg. 660	Day-deg. + 91	
	1. SCOTLAND, EAST	66	35	57.3	43.4	49.8	7 below	55	-48	0	0	1023	-259	727	+100	
	2. ENGLAND, N.E.	72	40	60.6	47.9	53.8	5 below	83	-32	0	0	1271	-90	522	+ 13	
	3. ENGLAND, EAST	75	42	63.7	50.4	56.6	4 below	102	-26	0	0	1518	-92	516	- 41	
	4. MIDLAND COUNTIES	74	38	62.8	47.7	54.8	5 below	90	-34	0	0	1494	-125	523	- 43	
5. ENGLAND, SOUTH	74	44	63.4	51.6	57.1	4 below	106	-30	0	0	1564	-190	358	- 55		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	32	61.2	44.6	52.3	5 below	72	-34	0	0	1251	-113	483	+ 50	
	7. ENGLAND, N.W.	70	36	61.1	48.4	54.3	5 below	86	-31	0	0	1347	-128	421	+ 6	
	8. ENGLAND, S.W.	70	41	62.8	50.0	56.0	4 below	98	-25	0	0	1544	-113	324	+ 6	
	9. IRELAND, NORTH	66	36	59.5	47.8	53.2	4 below	78	-30	0	0	1256	-205	339	- 28	
	10. IRELAND, SOUTH	70	44	62.9	50.7	56.4	3 below	101	-17	0	0	1580	-110	240	- 28	
— CHANNEL ISLANDS		71	50	63.7	54.1	58.6	3 below	116	-20	0	0	1825	- 57	99	- 24	
DISTRICTS. (See p. 176.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 5	10ths of in. 4 less	146	+18	25.3	- 0.3	22	- 6	19	- 5	724	- 33	26	- 1
	1. SCOTLAND, EAST	6	14	7 more	120	+12	14.1	- 2.1	18	-18	16	-15	750	- 95	27	- 4
	2. ENGLAND, N.E.	6	14	8 more	104	+ 4	12.3	- 0.6	20	-15	18	-13	812*	- 26	30	- 1
	3. ENGLAND, EAST	5	7	1 more	102	0	12.6	- 0.3	27	-22	24	-21	1007	- 34	35	- 1
	4. MIDLAND COUNTIES	5	7	1 more	98	+ 1	12.7	- 1.9	21	-20	19	-18	845	- 5	33	0
5. ENGLAND, SOUTH	5	5	1 less	96	+ 2	13.0	- 1.2	23	-26	21	-23	1033	- 37	37	- 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	10	1 more	132	+19	25.9	+ 0.1	45	+ 8	40	+ 7	808	- 82	29	- 3
	7. ENGLAND, N.W.	6	13	6 more	121	+17	15.7	- 1.3	34	- 1	30	- 1	938	+ 33	34	+ 1
	8. ENGLAND, S.W.	4	11	3 more	106	- 1	16.8	- 3.6	23	-24	21	-23	977	- 88	36	- 4
	9. IRELAND, NORTH	4	16	8 more	144	+20	20.7	+ 2.7	31	+ 1	28	+ 1	806	- 24	30	0
	10. IRELAND, SOUTH	4	13	6 more	115	0	18.6	- 2.7	27	- 7	24	- 7	891	- 41	33	- 1
— CHANNEL ISLANDS		4	7	1 more	112	+ 3	15.0	- 1.2	28	-31	26	-29	1094	-113	41	- 4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was in an unsettled and unseasonable condition, the air being very cool, and rain frequent, while towards the end of the time it became rough and squally.

Temperature was much below the mean, the deficit ranging from 3° in Ireland South and the Channel Islands, to 4° or 5° in most other districts, 6° in Scotland North, and 7° in Scotland East. The highest of the maxima were registered on Saturday, when they varied from 75° in England East, and 74° in the Midland Counties and England South, to 66° in Ireland North and Scotland East, and to 65° in Scotland North. At many of our northern and western stations the thermometer often failed to record 60°. The lowest of the minima, which occurred on rather irregular dates, ranged from 32° in Scotland West (at Cally on Friday), and 35° or 36° in some other north-western and northern districts, to 44° in England South and Ireland South, and to 50° in the Channel Islands. Thermometers exposed on the grass on Friday night recorded 4° of frost at Harrogate, 3° at Braemar, and 2° at Cheddar.

Rainfall was much in excess of the mean in most western and northern districts, and slightly so in most other localities, but in Scotland North and England South there was a deficit. The fall at many western stations on Friday, and at some north-western and north-eastern stations on Saturday was extremely heavy; the heaviest falls appear to have occurred over the northern and eastern parts of Ireland; at Fassaroe (Co. Wicklow) and at Malin Head they amounted to

2.43 ins. and 2.36 ins. respectively. More than an inch was measured in the south of Scotland and the north of England.

Bright Sunshine was very deficient in most regions, but slightly exceeded the normal in Scotland West and Ireland North. The percentage of the possible duration ranged from 40 in the former district, to 21 in England South and South-West, 19 in Scotland North and the Midland Counties, and 16 in Scotland East.

Barometer and Wind. At the commencement of the week a rather deep disturbance was travelling southwards over our south-western districts, and the wind had shifted to between North and North-East over our Islands generally. This polar current continued until Tuesday, when, owing to the arrival of a shallow depression in the north, it gave place to North-Westerly and Westerly breezes. From this time until Friday the winds were affected by small local baric minima in various parts of the United Kingdom, but were mainly North-Westerly in the west and north, and Westerly in the south and south-east. By Saturday a deep cyclonic system had reached Ireland, causing the wind to blow hard—from the Southward over England, and from the Eastward in Scotland and the north of Ireland. In some parts of England and in the north of Ireland, the wind attained the force of a gale.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.										
O. SCOTLAND, N.	Sumburgh Head	54	40	51.6	43.0	47.0	- 5.8	35	0	7	Inches. 0.49	Inches. - 0.07	*	*	*	*
	Stornoway	60	38	57.3	43.1	49.7	- 4.8	54	0	4	0.55	- 0.15	15.3	- 15.7	13	- 14
	Wick	56	38	53.7	42.4	47.7	- 7.5	40	0	6	0.48	- 0.09	*	*	*	*
	Lairg	59	40	54.5	43.7	48.7	- 6.2	47	0	5	0.66	- 0.74	*	*	*	*
	Glencarron	61	39	57.5	44.5	50.6	- 6.1	60	0	5	0.49	- 0.24	22.3	+ 1.3	19	+ 1
	Fort Augustus	65	44	60.4	47.5	53.5	- 3.3	81	0	3	0.12	- 1.09	36.4	+ 9.1	31	+ 8
1. SCOTLAND, E.	Fort William	65	44	60.4	47.5	53.5	- 3.3	81	0	3	0.12	- 1.09	36.4	+ 9.1	31	+ 8
	Nairn	60	40	56.0	43.4	49.3	- 7.9	51	0	7	0.82	+ 0.20	*	*	*	*
	Aberdeen	58	41	54.7	44.4	49.2	- 7.8	50	0	7	1.79	+ 1.14	20.3	- 16.5	18	- 14
	Braemar	61	35	53.4	41.1	46.8	- 7.4	37	3	6	0.98	+ 0.30	*	*	*	*
	Ochertyre	66	36	62.6	43.3	52.3	- 5.8	72	0	5	1.47	+ 0.74	*	*	*	*
	Leith	66	42	59.9	46.9	53.0	- 5.7	77	0	5	1.69	+ 1.06	*	*	*	*
2. ENGLAND, N.E.	Marchmont	62	35	57.0	41.0	48.4	- 8.4	49	3	5	1.51	+ 0.73	16.8	- 21.2	15	- 19
	Alnwick Castle	68	40	59.7	45.4	52.1	- 5.3	71	0	6	2.02	+ 1.37	*	*	*	*
	Durham	68	43	59.4	47.3	52.9	- 6.2	76	0	6	1.75	+ 1.11	17.2	- 19.9	15	- 17
	Shields	67	42	58.0	47.4	52.3	- 5.7	72	0	6	1.74	+ 1.15	*	*	*	*
	Scarborough	71	46	62.3	49.9	55.7	- 3.6	96	0	6	1.18	+ 0.58	24.9	-	22	-
	Spurn Head	72	47	61.0	50.3	55.3	- 4.6	93	0	3	0.61	+ 0.24	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	72	41	62.9	46.9	54.3	- 5.9	86	0	7	0.93	+ 0.39	*	*	*	*
	Hillington	73	43	63.7	49.0	55.8	- 5.1	97	0	6	1.68	+ 1.04	28.8	- 14.9	26	- 14
	Yarmouth	69	46	62.1	51.9	56.6	- 3.9	102	0	4	0.53	- 0.06	*	*	*	*
	Geldeston	75	42	64.8	50.3	57.1	- 3.6	106	0	4	0.62	+ 0.07	27.9	- 18.7	25	- 17
	Cambridge	75	48	66.3	50.3	57.7	- 4.1	110	0	4	0.31	- 0.23	24.6	- 20.8	22	- 19
	Felixstowe	72	46	63.3	51.9	57.2	- 3.9	106	0	5	0.29	-	26.1†	-	24†	-
4. MIDLAND COUNTIES	Rothamsted	71	47	62.0	49.2	55.2	- 5.2	92	0	4	0.44	- 0.13	12.3	- 34.6	11	- 32
	Harrogate	71	40	60.9	45.7	52.8	- 5.4	76	0	6	0.95	+ 0.32	28.0	-	25	-
	Bawtry (Hesley Hall)	74	39	62.9	47.3	54.6	- 5.8	88	0	6	0.89	+ 0.32	*	*	*	*
	Loughborough	72	38	63.7	48.0	55.3	- 6.1	93	0	5	0.66	+ 0.14	*	*	*	*
	Colly Weston (Stamford)	73	43	64.9	47.9	55.8	- 5.6	97	0	5	0.47	- 0.03	*	*	*	*
	Cheadle	68	41	60.6	47.2	53.4	- 4.7	80	0	6	1.17	+ 0.48	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	67	44	61.8	48.2	54.5	- 5.3	88	0	6	0.84	+ 0.24	13.5	-	12	-
	Churchstoke	68	41	62.6	47.7	54.6	- 3.5	88	0	4	0.71	+ 0.16	28.6	- 13.0	26	- 12
	Hereford	68	41	62.6	48.3	55.0	- 5.6	91	0	4	0.54	+ 0.02	*	*	*	*
	Cirencester	70	42	64.7	47.7	55.6	- 4.0	95	0	3	0.66	+ 0.01	19.5	- 24.5	18	- 22
5. ENGLAND, S.	Oxford	69	46	63.7	49.3	56.0	- 5.3	98	0	4	0.25	- 0.30	16.6	- 28.1	15	- 26
	London	74	49	65.0	52.1	58.1	- 4.7	113	0	5	0.17	- 0.35	14.1†	- 27.5†	13†	- 25†
	Swarraton (Alresford)	68	46	62.4	49.8	55.7	- 4.0	96	0	4	0.49	- 0.09	*	*	*	*
	Dungeness	68	47	65.1	53.6	59.0	- 2.6	119	0	4	0.27	- 0.10	29.1	-	27	-
	Hastings (St. Leonards)	68	48	63.1	52.9	57.6	- 3.6	109	0	5	0.36	- 0.14	26.9	- 24.8	25	- 23
	Southampton	72	48	65.1	52.2	58.2	- 4.1	113	0	5	0.74	+ 0.16	17.1	- 32.1	16	- 30
	Portland Bill	65	50	61.3	53.0	56.9	- 3.0	104	0	4	0.45	-	*	*	*	*
	Shaftesbury	68	44	61.6	47.9	54.3	- 5.1	86	0	5	0.76	+ 0.11	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	65	39	59.9	44.4	51.6	- 5.6	67	0	5	0.26	- 0.93	*	*	*	*
	Glasgow	65	42	59.8	46.2	52.5	- 5.0	74	0	4	0.74	- 0.03	42.6	+ 11.0	37	+ 10
	Gally	69	32	63.1	40.9	51.2	- 6.0	69	3	3	1.12	+ 0.22	*	*	*	*
	Douglas (Isle of Man)	64	40	61.8	46.8	53.8	- 3.6	83	0	3	1.80	+ 1.10	48.0	+ 4.4	43	+ 4
7. ENGLAND, N.W.	Newton Reigny	69	36	61.9	43.7	52.2	- 5.5	71	0	6	1.82	-	28.3	-	25	-
	Stonyhurst	68	42	60.5	47.9	53.8	- 4.6	83	0	4	1.23	+ 0.25	34.1	- 4.5	30	- 4
	Blackpool	69	44	62.5	49.0	55.3	- 4.4	93	0	5	1.63	+ 0.94	39.4	- 0.6	35	- 1
	Manchester (Prestwich)	70	38	60.6	46.3	53.0	- 5.8	77	0	5	1.17	+ 0.35	21.9	-	20	-
	Liverpool Obsy. (Bidston)	68	48	60.6	50.0	54.9	- 5.2	90	0	6	2.02	+ 1.39	28.3	-	26	-
	Chester	70	40	62.3	49.1	55.2	- 4.8	92	0	6	0.48	-	*	*	*	*
	Llandudno	69	45	61.7	51.2	56.1	- 4.2	99	0	6	1.05	+ 0.48	41.3	+ 1.3	37	+ 1
	Holyhead	62	46	58.6	49.6	53.8	- 5.0	83	0	6	1.19	+ 0.63	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	44	64.4	48.9	56.1	- 3.3	99	0	5	0.68	- 0.22	*	*	*	*
	Pembroke	62	50	60.1	52.0	55.8	- 2.9	97	0	3	1.14	+ 0.58	46.0	+ 0.4	42	0
	Clifton	70	47	64.2	51.8	57.6	- 3.4	109	0	4	0.74	+ 0.06	*	*	*	*
	Bath	70	45	64.3	49.0	56.1	- 4.6	99	0	3	1.01	-	24.0	-	22	-
	Arlington (N. Devon)	62	41	60.4	47.6	53.6	- 5.3	81	0	5	0.85	- 0.16	*	*	*	*
	Cullompton	69	43	64.3	48.5	55.9	- 5.2	97	0	3	1.00	+ 0.35	12.8	- 29.2	12	- 27
	Falmouth	65	48	62.3	52.1	56.8	- 3.5	104	0	6	1.81	+ 1.11	23.0	- 27.5	21	- 27
	Plymouth	64	43	62.1	50.4	55.8	- 5.5	97	0	5	1.29	+ 0.67	12.3	- 34.3	11	- 32
9. IRELAND, N.	Malin Head	58	47	55.9	48.3	51.8	- 5.6	69	0	4	3.12	+ 2.45	*	*	*	*
	Edenfel (Omagh)	64	36	60.9	46.7	53.3	- 3.3	79	0	4	1.03	+ 0.26	*	*	*	*
	Blacksod Point	61	44	58.9	49.4	53.8	- 4.2	83	0	6	1.29	+ 0.55	*	*	*	*
	Markree Castle	63	38	61.0	47.4	53.7	- 3.2	82	0	4	0.98	+ 0.14	34.6	+ 6.0	31	+ 6
	Armagh	66	42	61.4	47.2	53.8	- 4.0	83	0	5	2.08	+ 1.35	27.5	- 3.2	25	- 3
	Donaghadee	66	40	59.0	47.6	52.9	- 4.5	76	0	2	0.81	+ 0.15	*	*	*	*
10. IRELAND, S.	Dublin	64	45	61.9	50.8	56.0	- 4.1	98	0	6	2.00	+ 1.40	23.3	- 13.9	21	- 13
	Parsonstown	69	47	63.0	49.6	55.8	- 2.8	97	0	4	1.33	+ 0.64	15.7	- 15.3	14	- 14
	Kilkenny	65	46	62.0	50.3	55.7	- 3.3	96	0	4	1.93	+ 1.32	*	*	*	*
	Roche's Point	70	48	65.0	51.6	57.8	- 1.9	111	0	5	1.83	+ 1.13	*	*	*	*
	Valencia	64	46	61.4	51.7	56.2	- 2.5	99	0	4	0.62	- 0.31	41.6	+ 7.5	38	+ 6
	Killarney	66	44	64.0	50.3	56.7	- 2.0	103	0	4	0.76	- 0.08	*	*	*	*
	Foynes	65	49	62.9	50.5	56.3	- 1.8	100	0	2	0.80	+ 0.06	*	*	*	*
	Foynes	65	49	62.9	50.5	56.3	- 1.8	100	0	2	0.80	+ 0.06	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	50	63.3	54.1	58.4	- 2.3	115	0	4	1.11	+ 0.58	34.1	-	32	-
	Jersey	71	51	64.0	54.1	58.7	- 4.0	117	0	3	0.18	- 0.36	25.3	- 29.7	24	- 28

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

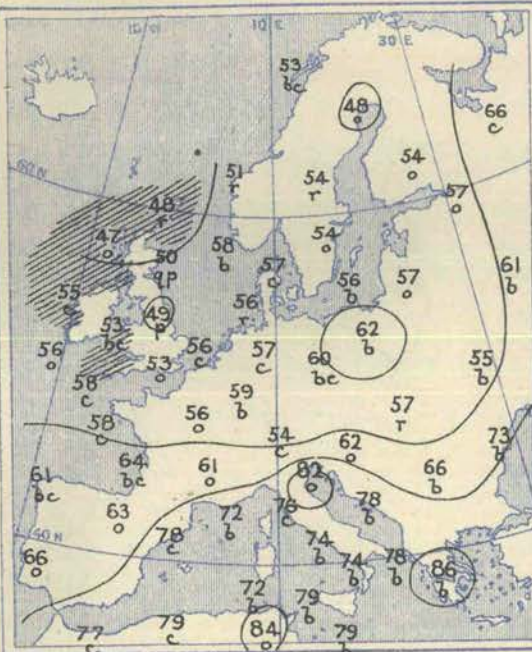
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 20th July.

Temperature and Weather.

8 a.m.

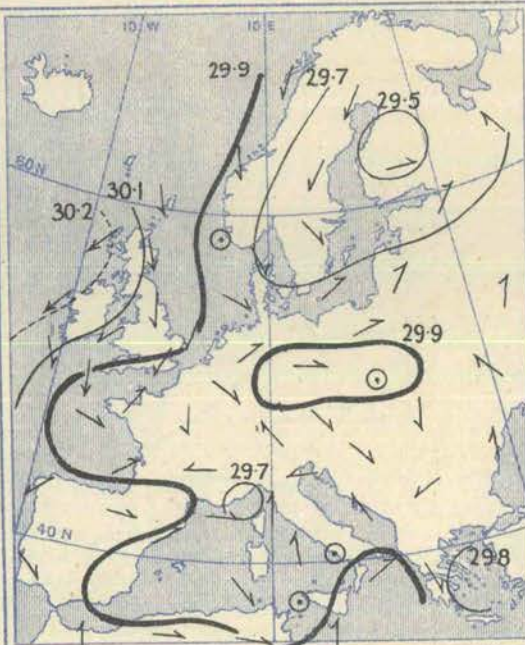


Weather in morning cloudy or dull over western and northern Europe generally, with rain in many parts of Great Britain, as well as at the Scandinavian and Danish stations. Fine in most of the southern and eastern countries, as well as in the Netherlands and western Germany, but cloudy or dull over the Spanish Peninsula. Sky clearing later in Ireland, but rain falling in most other parts of western, northern and central Europe—heavily at some of the Continental stations; thunder occurring at Lorient.

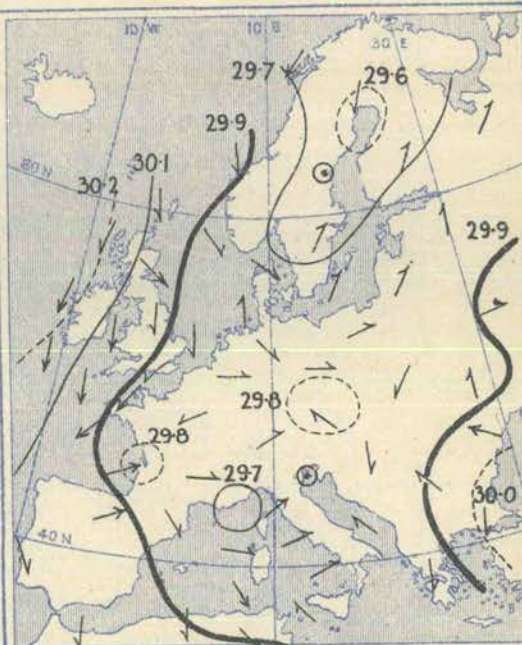
Temperature fallen in our Islands, and also in Sweden and Russia, but risen in most other countries. Morning readings highest, 86° at Athens, 84° at La Calle, and 82° at Trieste; above 75° at most of the Mediterranean and Adriatic stations. Lowest, (1) 47° at Stornoway, and 48° at Samburgh Head, Wick and Nairn (below 55° in all but the extreme southern and south-western parts of the United Kingdom); (2) 48° at Haparanda and 51° at Christiansund. Remaining below 60° all day in many parts of our Islands, and below 55° at several of our northern stations; exceeding 80° over southern Europe generally, and reaching 98° at Cagliari, and 99° at Sanguinaire.

Barometer and Wind.

8 a.m.



6 p.m.



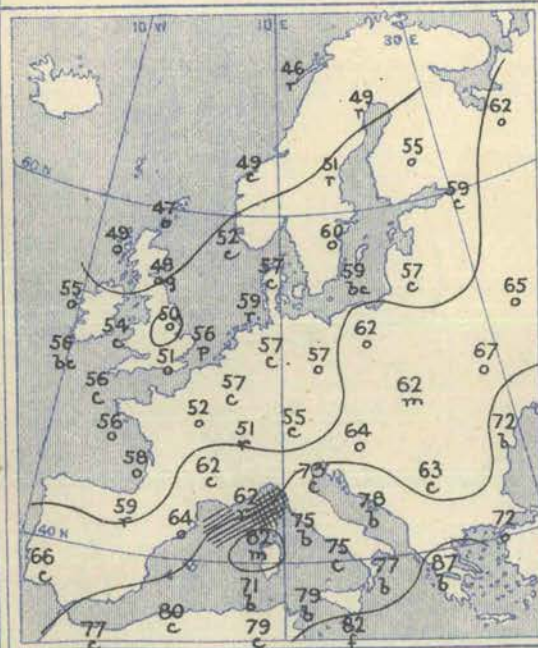
Wind Northerly or North-Easterly in our Islands, and strong in force on several of the more exposed parts of our western coasts; light to fresh from the Westward in the west of France. North-Easterly in Scandinavia; North-Westerly in Denmark; South-Westerly over north Germany, the Baltic, and the Gulf of Finland; light and variable over the southern parts of the Continent. No important change occurring during day.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying off the extreme north-west of our Islands. Lowest, 29.5 ins. and less in a cyclonic system over Finland; 29.7 ins. and less in a small disturbance over the Gulf of Genoa; 29.8 ins. and less in a well marked depression with its centre over the western part of the English Channel. Cyclonic system over Finland moving northwards later and partially filling up; depression over Channel passing away in a south-south-easterly direction across the west of France.

Monday, 21st July.

Temperature and Weather.

8 a.m.

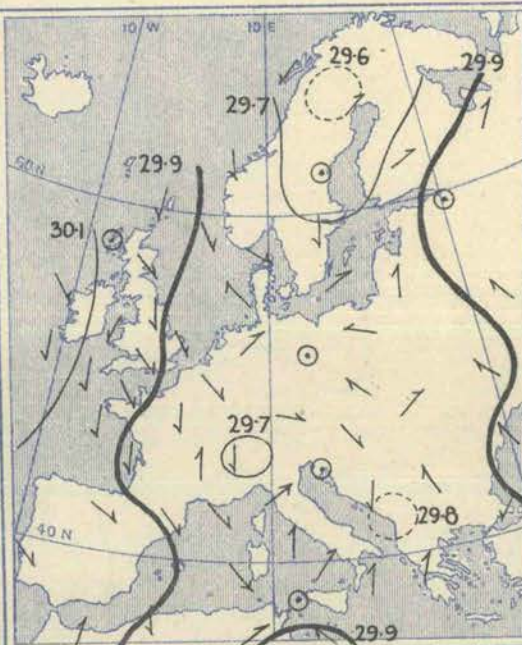


Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain over the northern parts of Scandinavia, and also over northern Italy and the south and east of France, and a thunderstorm at Turin. Fine on the south coasts of Ireland, as well as in Greece, Italy, and the south of Russia. Rain falling later in many parts of western, northern and central Europe—heavily at Cuxhaven and Cracow.

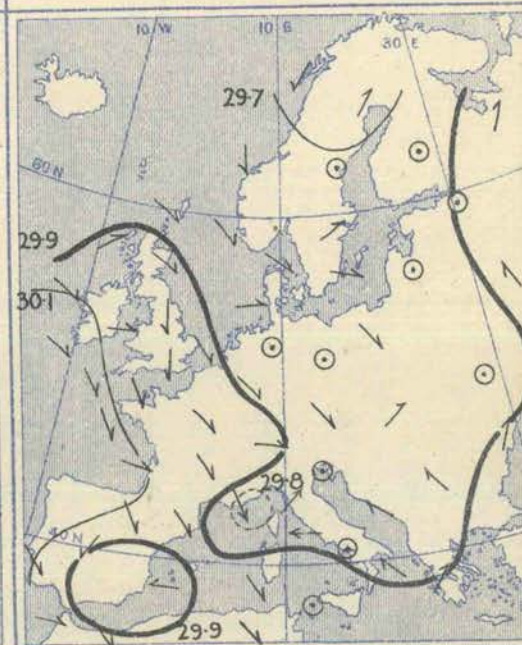
Temperature fallen over England, Ireland and France, changed very irregularly elsewhere. Morning readings highest, 87° at Athens, 82° at Sanguinaire, Patras, and Malta, and 80° at Algiers; above 75° at most of the Mediterranean and Adriatic stations. Lowest, 46° at Bodø, 47° at Samburgh Head and Wick, and 48° at Aberdeen and Newton Reigny; above 55° in most parts of the United Kingdom. Daily maxima in our Islands below 60° at all but the extreme western and south-western stations, and below 65° over the northern and central parts of France; thermometer exceeding 80° over southern Europe, and reaching 91° at Malta, 96° at Brindisi, and 99° at Sanguinaire.

Barometer and Wind.

8 a.m.



6 p.m.



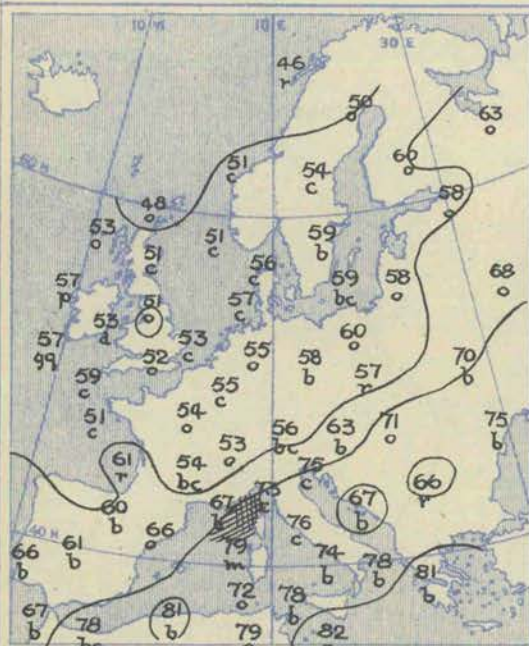
Wind light to fresh from the Northward over the United Kingdom, France, the Netherlands, and the west of Norway, and North-Westerly in Spain, but South-Westerly or Southerly in Italy. Westerly in Austria; variable in Denmark and Germany; South-Westerly over Sweden and Northern Russia. Subsequently backing to the North-Westward in many parts of western Europe, and to the South-Westward in the Hebrides; no decided change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in a large anticyclone lying over Ireland and the neighbouring parts of the Atlantic; 29.9 ins. and less in another system over Russia. Lowest, 29.6 ins. and less in a well marked depression over the north of Scandinavia; 29.7 ins. and less in a small disturbance near Turin; 29.8 ins. and less in a large shallow area covering nearly the whole of northern and central Europe. Fresh disturbances appearing later—one off the north-west of Scotland, and the other over the eastern and central parts of Spain.

Tuesday, 22nd July.

Temperature and Weather.

8 a.m.

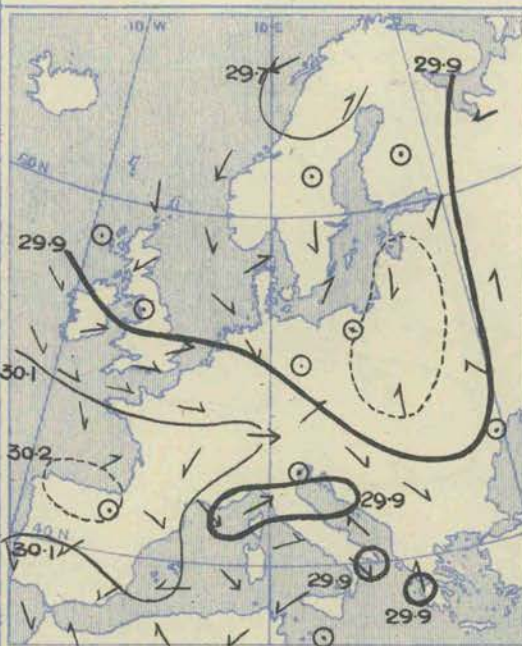


Weather in morning cloudy or dull over western and northern Europe generally, with rain or passing showers at several of the English and Irish stations, and also at Bodø. Fine over the greater part of southern and eastern Europe, but rain falling at Hermanstadt. Rain falling later in most of the north-western and central countries—rather heavily at some of the German stations.

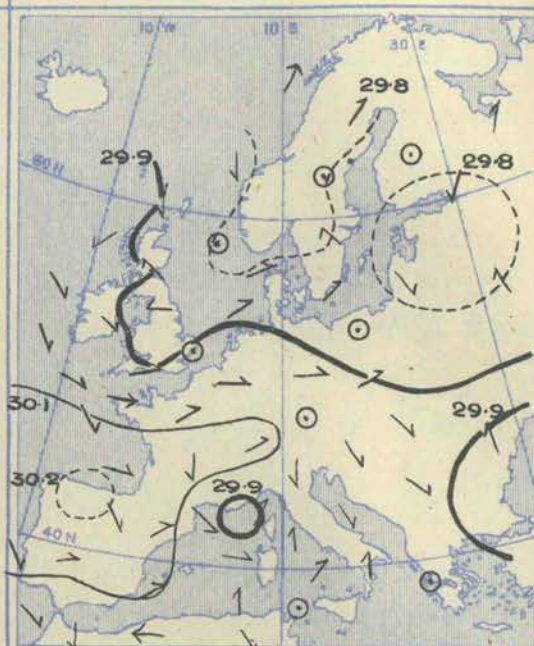
Temperature risen slightly in most places. Morning readings highest, 82° at Malta and Alicante, 81° at Patras and Algiers, and 79° at Sanguinaire and La Calle; above 75° at most of the Mediterranean stations. Lowest, 46° at Bodø, and 48° at Sumburgh Head and Newton Beigny; below 55° in most parts of Great Britain, and also over central France. Daily maxima below 60° at most of our own northern, eastern, and central stations, and below 65° in all districts excepting the central and south-eastern parts of Ireland. Thermometer exceeding 70° in most parts of southern Europe, and above 80° over southern Italy, the highest readings reported being 101° at Brindisi, and 99° at Sanguinaire.

Barometer and Wind.

8 a.m.



6 p.m.



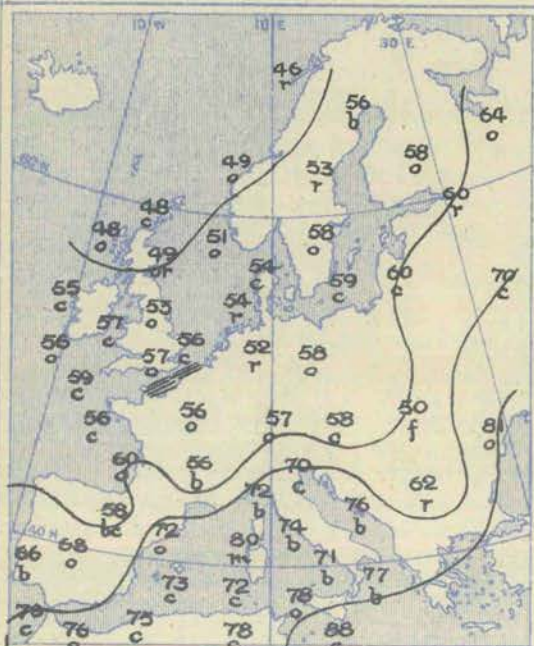
Wind light to moderate from the North-Westward in Ireland, and from the Westward and South-Westward over England, France, Germany, and the Netherlands; light from the North-Eastward in the east of Scotland, calm in the north of that country. Northerly or North-Easterly in the west of Norway; calm and light from the Southward in Russia and Sweden. Southerly or South-Westerly in most parts of Greece and Italy; Northerly (North-Easterly to North-Westerly) over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30.2 ins. and upwards over the south-west of France and the southern part of the Bay of Biscay; 30.0 ins. and upwards in an anticyclone covering the greater part of France, Spain, and Algeria, and extending over our own extreme southern and south-western coasts. Lowest, 29.7 ins. and less in a shallow cyclonic system over the north of Scandinavia; 29.8 ins. and less in another disturbance over Poland and western Russia. Both depressions travelling north-eastwards later; large, but very shallow, secondary system moving south-eastwards across Great Britain.

Wednesday, 23rd July.

Temperature and Weather.

8 a.m.

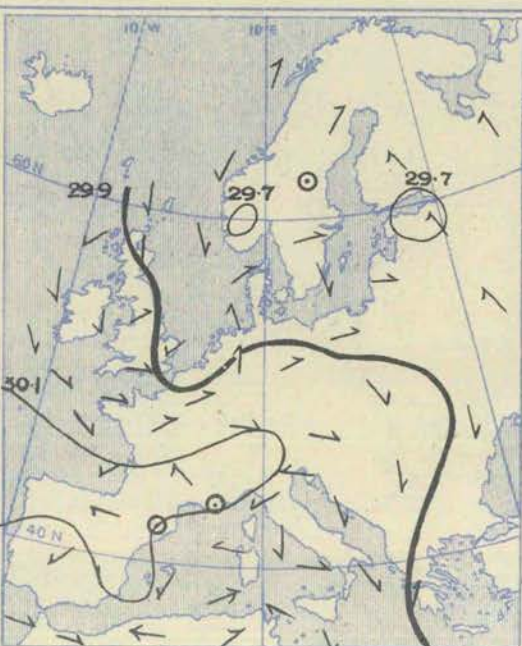


Weather in morning cloudy or dull over western, northern, and central Europe generally, with rain in several parts of Scandinavia, Denmark, Germany, and northern Russia, as well as at Aberdeen and Hermanstadt. Fine over the southern parts of the Continent generally, but dull at some of the Spanish stations. Showers falling later over north-western Europe generally, and lightning seen at Biarritz.

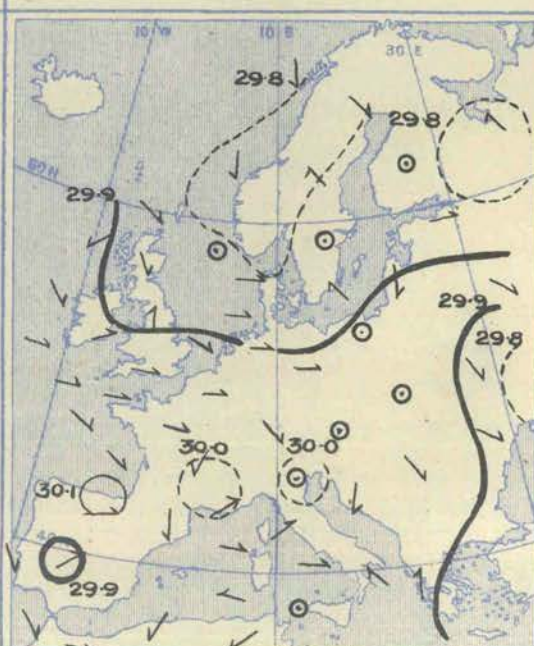
Temperature risen over England, France, and Spain; fallen in most other countries. Morning readings highest, 83° at Malta, 85° at Athens, 84° at Patras, and 81° at Odessa; above 70° over southern and eastern Europe generally. Lowest, 46° at Bodø, 48° at Sumburgh Head, Stornoway, and Wick, and 49° at Christiansund and Aberdeen; below 55° over the northern and central parts of the United Kingdom generally, and also in some parts of Germany and central France. Rising during day to 65° and upwards at several of our southern stations, and to 69° in London and at Oxford, but not exceeding 60° on our west, north, and east coasts. Exceeding 70° over southern Europe generally, and exceeding 80° over Spain and southern Italy; reaching 93° at Malta, 95° at Sanguinaire, and 96° at Madrid.

Barometer and Wind.

8 a.m.



6 p.m.



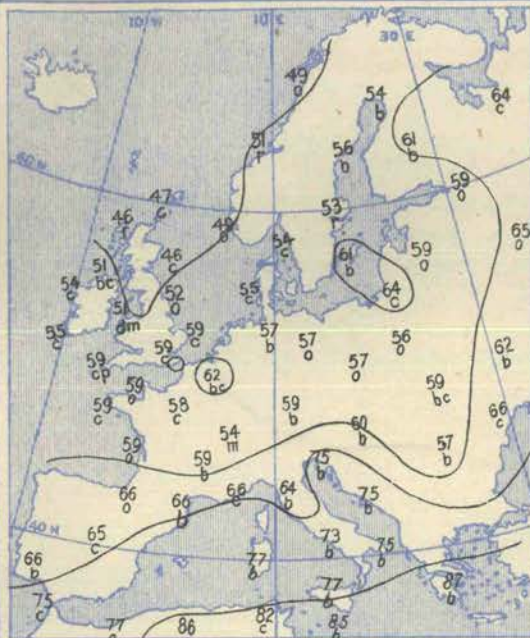
Wind light from the Northward on our west, north, and east coasts, and moderate to fresh from the same quarter in the west of Norway; variable over the northern and central parts of England; Westerly at the Channel stations; South-Westerly in Germany and Sweden; Southerly in Denmark. Variable in Italy and the south of France; Easterly to Northerly in Spain; Southerly or South-Westerly in Greece. Subsequently backing to the Westward at several of our western stations; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in an anticyclonic area stretching from the Atlantic over the north of Spain and the southern parts of the Bay of Biscay, France, and Germany. Lowest, 29.7 ins. and less in two shallow cyclonic systems—one lying over the south of Norway and the other near St. Petersburg. Both depressions partially dispersing later, but several small and very shallow disturbances appearing over various parts of western and central Europe.

Thursday, 24th July.

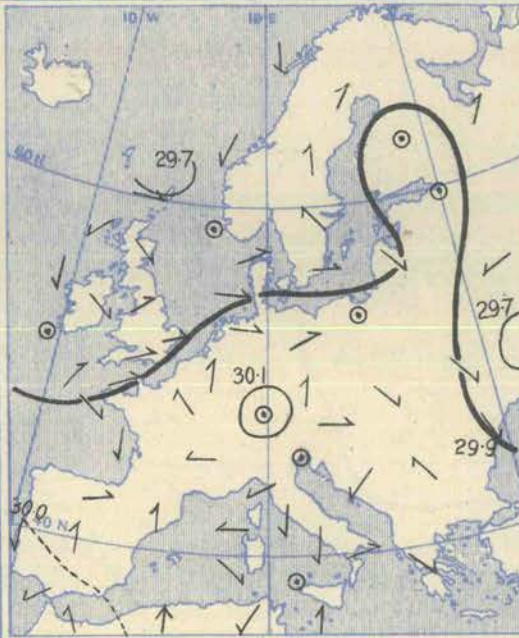
Temperature and Weather.

8 a.m.

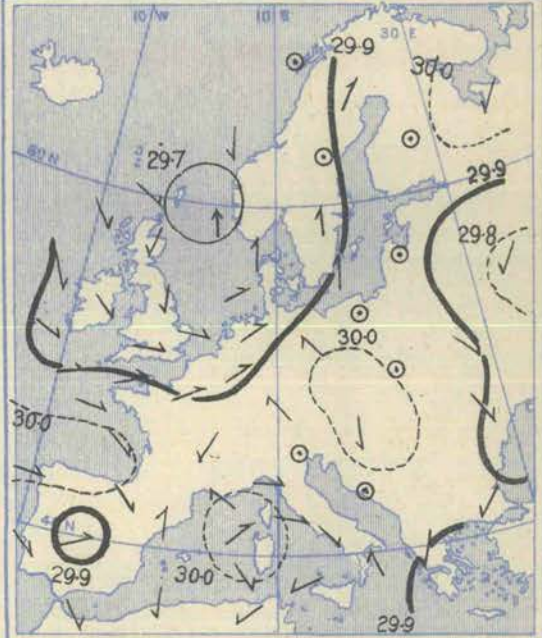


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine in most parts of southern Europe and the Mediterranean, cloudy or dull in the more northern countries, with rain in several parts of the United Kingdom and Scandinavia. Some rain falling during day in different parts of France (a thunderstorm occurring at Lyons), and also in the north and west of our Islands and a few districts of northern Europe.

Temperature at 8 a.m. highest, 87° at Athens, 86° at Aumale, 85° at Malta, 77° at Barcelona, 75° at Trieste and San Fernando, 69° at Kharkov, 65° at Moscow, and 64° at Archangel. Lowest, 46° in the north of Scotland, 49° at Bodö and Skudenes, 51° at Pembroke, 53° at Münster, and 54° at Belfort. Rising subsequently to 68° in the south-east of England, to above 70° in some parts of Germany, to 80° or above in the extreme south of France and over Italy and the Adriatic, to 89° at Madrid, 93° at Malta, 97° at Athens, and 99° at Tunis. Remaining below 60° over our own northern districts.

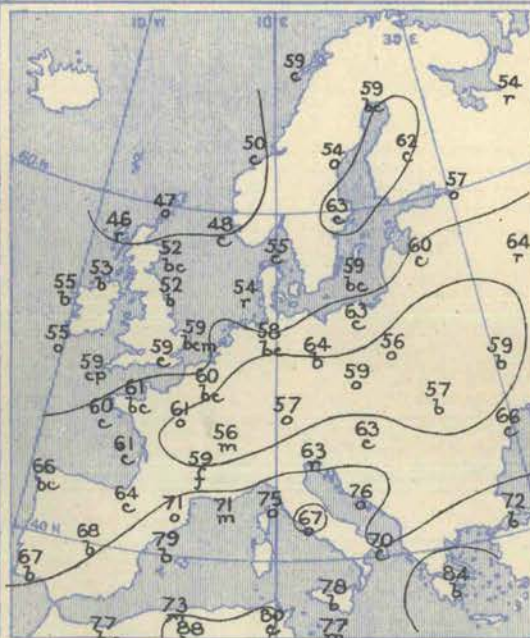
Wind Northerly or North-Westerly in the north and west of our Islands, and Westerly or South-Westerly in the south and east. Mainly Westerly over the Baltic and central Europe, and drawing into the Northward in the south-west of Russia. Light and variable elsewhere. No very decided change as a whole later, but wind increasing to strong breeze from South at Skudenes.

Barometer in morning highest, 30.0 ins. and upwards in a large anticyclone embracing all of central Europe, and extending southwards to Malta. Lowest 29.7 ins. and less, (1) in a disturbance to the northward of the Shetlands, and (2) in another system in the south of Russia. Latter dispersing by evening, but former apparently moving south-eastwards and increasing in depth. Anticyclone giving way and becoming much restricted in size; a disturbance forming over central Spain.

Friday, 25th July.

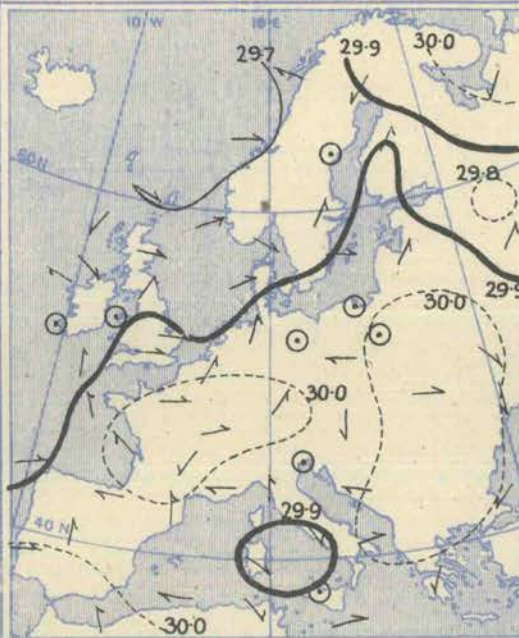
Temperature and Weather.

8 a.m.

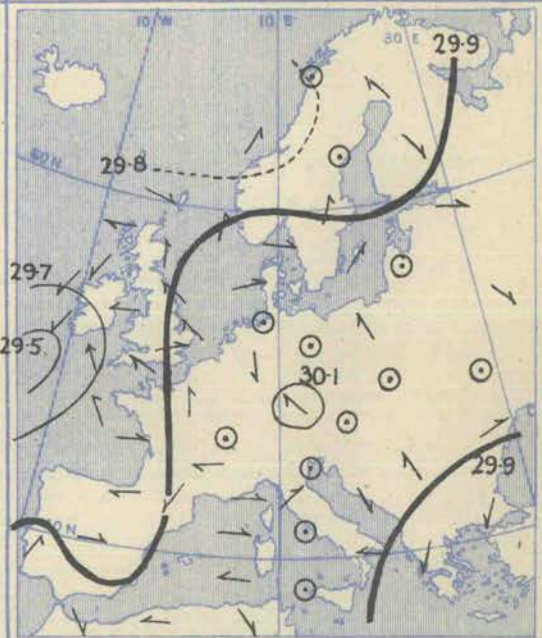


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over western Europe as a whole, but cloudy or dull in places, with rain at Stornoway, and also at Fanö. Dull in Sweden and the northern and central parts of Russia, with rain at Archangel and Moscow; fine in Greece and the south of Russia, and also over the Spanish Peninsula. Rain falling later over nearly the whole of the United Kingdom—heavily in the west; amounts measured next morning exceeding three-quarters of an inch in several places, the largest reported being 2.4 ins. at Fassaroe (Bray), 2.1 ins. at Knockdolian, Greystones, 1.3 ins. at Roche's Point, and 1.2 ins. at Parsonstown.

Temperature risen over France, Germany, and the Netherlands, changed very irregularly elsewhere. Morning readings highest, 88° at Aumale, 84° at Athens, 83° at Patras, and 80° at Tunis; above 75° at most of the Mediterranean and Adriatic stations. Lowest, 46° at Stornoway, 47° at Sumburgh Head and Wick, and 49° at Nairn; below 55° over the northern parts of the United Kingdom generally. Rising during day to 65° and upwards at most of the English stations, and to 70° in London; exceeding 70° in Germany and central France, and exceeding 80° in most parts of southern Europe.

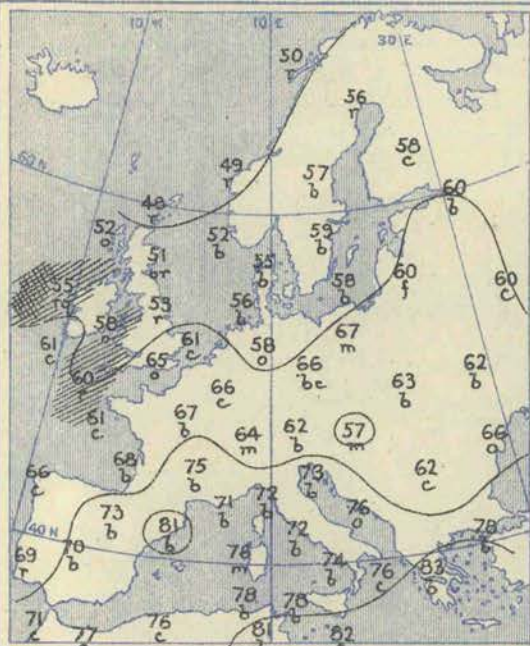
Wind light from the Westward or South-Westward over England and the east of Scotland and also over the Netherlands, Denmark, and western Germany; strong from the same quarters in the south of Scandinavia. Light from the North-Westward in the northern parts of Ireland and Scotland; variable in the south of Ireland. Easterly or South-Easterly in the west and south of France and the neighbouring parts of Spain; variable in Austria, Italy, and Greece; light from the Northward or North-Westward in the south of Russia. Subsequently backing to the South-Eastward over nearly the whole of England, and to the Eastward in Ireland, and freshening considerably on our extreme south-west coasts.

Barometer highest, 30.0 ins. and upwards in three large areas lying over various parts of central and southern Europe. Lowest, 29.7 ins. and less in a large shallow cyclonic system lying over the Shetlands, the west of Norway, and the adjacent parts of the Atlantic. Depression travelling north-eastwards later, but new and much deeper disturbance approaching our own extreme south-west coasts in evening.

Saturday, 26th July.

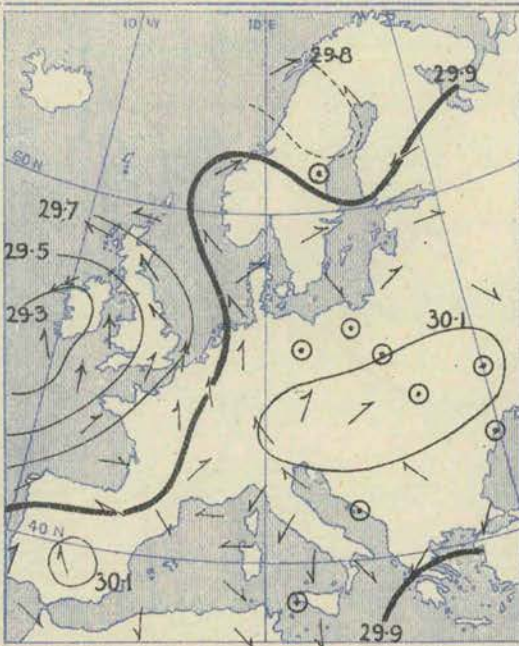
Temperature and Weather.

8 a.m.

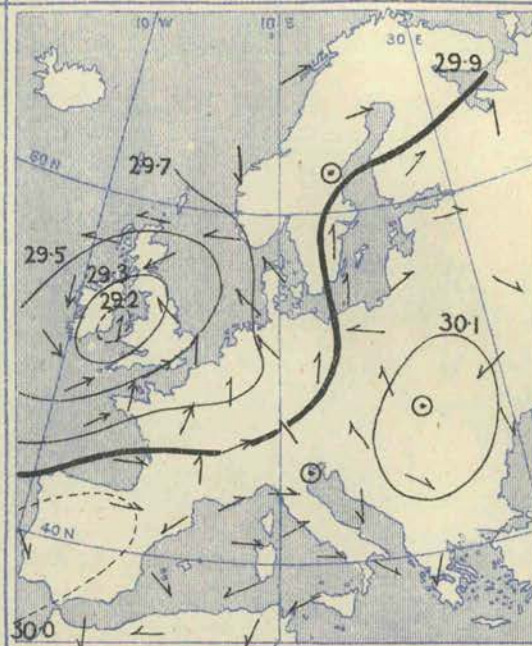


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning, fine at some of our southern stations, but cloudy and unsettled over the United Kingdom generally, with rain in most of the western and northern districts. Fine over the greater part of the Continent, but rainy in the north of Scandinavia; dull in Portugal, with rain at Lisbon. Heavy rain falling later at many of our own northern stations (more than an inch at Leith and Shields, and as much as 2.4 ins. at Malin Head), and smaller quantities in most other parts of western and northern Europe. Thunderstorms occurring over the central parts of France, with heavy rain at Clermont.

Temperature risen in most places. Morning readings highest, 86° at Aumale, 83° at Patras, 82° at Malta, and 81° at Barcelona; above 75° at most of the Mediterranean and Adriatic stations. Lowest, 48° at Sunbury Head, 49° at Christiansund, and 50° at Bodø and Nairn; below 55° over the northern parts of the United Kingdom generally. Remaining below 55° all day on our extreme north and north-west coasts, but exceeding 70° at some of our eastern and southern stations, and reaching 74° in London. Exceeding 80° in many parts of France and southern Europe, and reaching 83° at Sanguinaire, and 82° at Clermont and Palermo.

Wind moderate to strong from the Southward or South-Westward over the south of our Islands and the neighbouring parts of the Continent; South-Easterly on the borders of the North Sea; light from the Eastward in the north of Scotland, and strong to a gale from the same quarter, or from North-East in the north of Ireland. South-Westerly over Scandinavia and the Gulf of Finland. Calm or variable over Austria and the south of Russia; Northerly (North-Easterly to North-Westerly) in Italy and Greece. Subsequently increasing to a moderate to fresh gale from the South-Westward over the greater part of England, and from the Eastward in the east of Scotland.

Barometer highest, 30.1 ins. and upwards over Austria and the south-west of Russia, and also over central Spain. Lowest, 29.3 ins. and less in a well-marked and rather deep cyclonic system with its centre off the south-west of Ireland; 29.3 ins. and less in a shallow disturbance over the north of Scandinavia. Cyclonic system in south west subsequently moving briskly north-eastwards across Ireland and the Irish Sea; barometer rising quickly in its rear.

GENERAL NOTES.

At the commencement of the week a well-marked cyclonic system, which had previously moved south-eastwards across Ireland, was passing away over France, and strong Northerly winds were blowing in many parts of the United Kingdom, with showery weather, and an unusually low temperature for the time of year. Other low-pressure systems were noticed at the same time respectively over northern and southern Europe, each being accompanied by a cyclonic circulation of wind and by unsettled rainy weather, with thunderstorms in some parts of France and northern Italy.

After the 21st an anticyclone advanced from the Atlantic over France and Spain, and in the course of the next two or three days shallow depressions appeared over various parts of our

Islands and the North Sea, the wind being mainly Northerly in our western and northern districts, but Westerly in the south, and the weather changeable and showery.

Towards the close of the week the anticyclone moved eastwards to central Europe, and on the night of the 25th a cyclonic system of considerable depth for the time of year appeared off the south-west of Ireland, its centre moving next day steadily north-eastwards directly across the United Kingdom. During the progress of the disturbance the wind increased to a gale from various directions on nearly all parts of our coasts, while heavy rain fell in the west and north, the amount being especially large in Ireland and the north of England.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: — = a heavy gale; — = a gale; — = a fresh to strong breeze; — = a light to moderate breeze; and (x) = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 176.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	12.4	- 17.8	11	- 15	WORKSOP	22.4	- 14.0	20	- 13	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	21.8	- 6.5	19	- 6	THURCASTON	18.9	- 20.7	17	- 19	SOUTHPORT	38.5	—	34	—
EDINBURGH	17.9	- 14.6	16	- 13	MARGATE	28.7	- 16.2	26	- 15	RHYL	35.6†	—	32†	—
MORPETH	17.7	—	16	—	BROADSTAIRS	34.4	—	32	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	12.8	—	11	—	EASTBOURNE	24.4	- 27.4	26	- 21	ABERDOVEY	35.8†	—	32†	—
YORK	28.3	- 10.2	25	- 9	BRIGHTON	20.7	- 31.0	19	- 29	TENBY	29.4	- 16.4	27	- 15
CROMER	39.5	—	36	—	WORTHING	20.1	—	18	—	NEWQUAY	—	—	—	—
LOWESTOFT	34.6	—	32	—	BOGNOR	19.2†	—	18†	—	TORQUAY	11.4	- 37.4	11	- 35
DUNMOW	17.9	—	16	—	WATERGATE	10.4	—	10	—	GUERNSEY	25.3†	- 31.4	24†	- 29
HOLLESLEY BAY	27.9	—	25	—	WESTBOURNE	19.0†	- 31.0	17†	- 29					
SHEFFIELD	22.3	—	20	—	VENTNOR HOSPITAL	30.6	- 17.6	28	- 16					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, AUGUST 2ND, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 182.)		Temperature of the Air.													
		Observed during the Week.						Accumulated.							
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	40	57.5	45.7	51.2	4 below	Day-deg. 64	Day-deg. -24	Day-deg. 0	Day-deg. 0	Day-deg. 959	Day-deg. -180	Day-deg. 660	Day-deg. +91
	1. SCOTLAND, EAST	67	38	61.2	45.5	52.8	4 below	76	-27	0	0	1099	-286	727	+109
	2. ENGLAND, N.E.	67	40	63.4	47.6	54.9	4 below	90	-25	0	0	1361	-115	522	+13
	3. ENGLAND, EAST	71	37	65.8	48.9	56.8	4 below	104	-23	0	0	1622	-115	516	-41
	4. MIDLAND COUNTIES	69	41	63.7	48.6	55.6	4 below	95	-28	0	0	1589	-153	523	-43
5. ENGLAND, SOUTH	71	41	64.7	51.2	57.5	4 below	109	-27	0	0	1673	-217	358	-55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	38	59.9	47.0	53.0	4 below	77	-29	0	0	1328	-142	483	+50
	7. ENGLAND, N.W.	66	40	61.2	50.0	55.2	4 below	92	-25	0	0	1439	-153	421	+6
	8. ENGLAND, S.W.	68	39	63.2	51.7	57.0	3 below	105	-18	0	0	1649	-131	324	+6
	9. IRELAND, NORTH	66	42	60.2	47.8	53.6	4 below	81	-27	0	0	1337	-232	339	-28
	10. IRELAND, SOUTH	69	41	62.7	50.2	56.0	3 below	98	-20	0	0	1678	-130	240	-28
— CHANNEL ISLANDS		69	59	64.5	54.9	59.4	2 below	122	-14	0	0	1947	-71	99	-24

DISTRICTS. (See p. 182.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 12	10ths of in. 3 more	152	+20	Ins. 26.5	Ins. 0.0	29	+2	25	+1	753	-31	26	-1
	1. SCOTLAND, EAST	5	4	3 less	125	+13	14.5	-2.4	35	0	32	0	785	-96	27	-4
	2. ENGLAND, N.E.	4	3	3 less	108	+5	12.6	-0.9	40	+4	36	+3	852	-22	30	-1
	3. ENGLAND, EAST	2	2	4 less	104	-1	12.8	-0.7	43	-5	40	-5	1050	-39	35	-1
	4. MIDLAND COUNTIES	3	2	4 less	101	0	12.9	-2.3	31	-11	29	-10	876	-16	33	0
5. ENGLAND, SOUTH	3	2	4 less	99	+2	13.2	-1.5	36	-11	34	-10	1069	-48	37	-1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	8	1 less	136	+19	26.7	-0.1	43	+7	39	+6	851	-76	30	-3
	7. ENGLAND, N.W.	4	3	4 less	125	+17	16.0	-1.7	41	+6	37	+5	979*	+39	35	+2
	8. ENGLAND, S.W.	3	2	5 less	109	-2	17.0	-4.2	37	-8	35	-8	1015	-95	36	-4
	9. IRELAND, NORTH	6	6	2 less	150	+22	21.3	+2.5	23	-7	21	-6	829	-31	29	-1
	10. IRELAND, SOUTH	4	2	6 less	119	0	18.8	-3.3	36	+2	34	+2	927	-39	33	-1
— CHANNEL ISLANDS		2	2	4 less	114	+2	15.2	-1.6	55	+2	52	+2	1149	-112	42	-3

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was cool and mostly of an unsettled character. Rain was very frequent in the extreme north and north-west, but several fair, dry days were experienced in the south and east. Thunder was heard in some parts of England on Friday, and again in a few localities on Saturday.

Temperature was below the mean, the deficit in most districts being 4°; in the Channel Islands, however, it was only 2°. The highest of the maxima were registered on somewhat irregular dates, and varied from 71° in England S. and E., to 64° in Scotland N., and to 63° in Scotland W. The lowest of the minima, which occurred either during the earlier days of the week or towards its close, ranged from 37° in England E., 38° in Scotland W. and E., and 39° in England S.W., to 42° in Ireland N., and to 50° in the Channel Islands.

Rainfall was less than the mean over the Kingdom as a whole, but rather more than the normal in Scotland N.

Bright Sunshine was deficient in many districts, but exceeded the mean amount in Scotland N. and W., England N.E. and N.W., Ireland S., and the Channel Islands. The percentage of the possible duration varied from 52 in the last named district, to 40 in England E., 25 in Scotland N., and 21 in Ireland N.

Barometer and Wind. During the early days of the week the winds and weather were under the influence of a rather deep depression, which moved north-eastwards over our Islands to Scandinavia, and the Northerly and Westerly currents prevailing in the west and south were at first very strong. By Wednesday the barometer had become relatively high over France and our southern districts, and the winds had fallen light. This high pressure area then moved north-westwards to Ireland, and the wind veered to the Northward, but towards the end of the period it gradually receded to the Bay of Biscay, a depression appeared over Scotland, and the wind backed to the Westward and South-Westward very generally.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N.	Sumburgh Head	56	42	53.7	44.3	48.7	- 4.2	47	0	4	0.12	- 0.49	*	*	*	*
	Stornoway	64	42	58.9	45.0	51.5	- 2.9	67	0	6	1.20	+ 0.46	31.9	+ 1.3	28	+ 1
	Wick	62	42	58.7	45.3	51.5	- 3.6	67	0	7	1.44	+ 0.86	*	*	*	*
	Laig	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron	58	40	56.0	45.2	50.2	- 4.6	57	0	6	2.00	+ 0.57	*	*	*	*
	Fort Augustus	63	40	58.9	46.3	52.2	- 4.3	71	0	5	0.90	+ 0.18	22.2	+ 1.4	20	+ 1
	Fort William	61	44	58.5	47.8	52.8	- 4.0	76	0	5	1.59	+ 0.35	20.1	- 6.2	18	- 5
1. SCOTLAND, E.	Nairn	64	42	61.3	45.4	52.8	- 4.3	76	0	7	0.49	- 0.12	*	*	*	*
	Aberdeen	62	42	59.1	46.1	52.2	- 4.5	71	0	6	0.52	- 0.14	33.9	- 2.4	30	- 2
	Braemar	60	38	57.1	42.8	49.5	- 4.5	53	0	5	0.36	- 0.38	*	*	*	*
	Ochertyre	67	43	64.4	45.6	54.4	- 3.5	87	0	4	0.33	- 0.44	*	*	*	*
	Leith	67	46	64.7	49.7	56.7	- 1.9	103	0	5	0.18	- 0.44	*	*	*	*
	Marchmont	63	40	60.7	43.1	51.3	- 5.2	65	0	4	0.31	- 0.47	35.5	- 1.5	32	- 2
2. ENGLAND, N.E.	Alnwick Castle	67	43	63.9	46.5	54.6	- 2.5	88	0	5	0.48	- 0.18	*	*	*	*
	Durham	66	43	62.8	45.3	53.4	- 5.3	80	0	6	0.35	- 0.29	39.7	+ 3.5	36	+ 3
	Shields	65	45	62.6	47.9	54.7	- 3.1	89	0	3	0.18	- 0.42	*	*	*	*
	Scarborough	65	40	62.7	46.1	53.8	- 5.2	83	0	6	0.23	- 0.38	44.2	—	40	—
	Spurn Head	64	49	62.7	51.1	56.5	- 3.2	102	0	2	0.21	- 0.18	*	*	*	*
	Fulbeck (Lincolnshire)	67	47	65.5	48.9	56.6	- 3.4	102	0	2	0.37	- 0.16	*	*	*	*
3. ENGLAND, E.	Hillington	69	41	65.9	46.6	55.6	- 4.8	95	0	2	0.06	- 0.57	43.9	+ 1.2	41	+ 1
	Yarmouth	66	48	64.1	52.1	57.7	- 2.6	110	0	2	0.47	- 0.08	*	*	*	*
	Geldeston	69	37	66.4	46.4	55.7	- 4.7	96	0	2	0.32	- 0.20	42.1	- 3.6	39	- 4
	Cambridge	71	44	68.6	48.1	57.6	- 4.0	109	0	2	0.04	- 0.49	42.8	- 1.7	40	- 2
	Felixstowe	68	44	64.9	50.4	57.2	- 3.4	106	0	2	0.16	—	50.4†	—	47†	—
	Rothamsted	67	44	64.7	49.7	56.7	- 3.5	103	0	2	0.15	- 0.42	29.1	- 16.4	27	- 16
4. MIDLAND COUNTIES	Harrogate	63	43	61.2	46.9	53.6	- 4.4	81	0	5	0.52	- 0.10	39.5	—	36	—
	Bawtry (Hesley Hall)	69	45	64.3	48.6	55.9	- 4.1	97	0	3	0.25	- 0.23	*	*	*	*
	Loughborough	69	46	65.4	50.1	57.2	- 3.8	106	0	2	0.10	- 0.43	*	*	*	*
	Colly Weston (Stamford)	68	44	66.3	48.0	56.5	- 4.5	102	0	1	0.01	- 0.55	*	*	*	*
	Cheadle	63	45	61.1	48.0	54.1	- 3.8	85	0	4	0.18	- 0.55	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	65	47	62.6	49.3	55.5	- 4.1	95	0	3	0.11	- 0.49	25.0	—	23	—
	Churchstoke	55	42	62.8	46.9	54.3	- 3.7	86	0	4	0.11	- 0.45	31.9	- 8.5	30	- 7
	Hereford	68	41	64.5	48.8	56.1	- 4.3	99	0	0	0.00	- 0.53	*	*	*	*
	Cirencester	67	41	64.1	48.5	55.8	- 3.3	97	0	2	0.14	- 0.52	22.5	- 20.7	21	- 20
	Oxford	67	46	64.7	50.7	57.2	- 3.8	106	0	2	0.03	- 0.51	27.2	- 16.5	25	- 16
5. ENGLAND, S.	London	71	45	67.6	50.7	58.6	- 4.0	116	0	3	0.17	- 0.35	25.5†	- 15.2†	24†	- 14†
	Swarraton (Airesford)	66	41	64.5	48.8	56.1	- 3.2	99	0	4	0.25	- 0.35	*	*	*	*
	Dungeness	66	43	64.6	51.9	57.8	- 3.9	111	0	1	0.02	- 0.36	45.9	—	43	—
	Hastings (St. Leonards)	65	46	63.7	50.6	56.7	- 4.5	103	0	4	0.13	- 0.40	50.4	- 0.1	48	0
	Southampton	70	49	67.7	52.1	59.4	- 2.8	122	0	3	0.22	- 0.37	30.0	- 18.5	28	- 18
	Portland Bill	63	50	61.7	53.9	57.5	- 2.7	109	0	2	0.09	—	*	*	*	*
6. SCOTLAND, W.	Shaftesbury	66	46	62.9	50.4	56.2	- 3.2	99	0	4	0.14	- 0.50	*	*	*	*
	Laudale (Loch Sunart)	63	45	58.8	48.8	53.5	- 3.6	81	0	6	1.68	+ 0.48	*	*	*	*
	Glasgow	61	45	59.9	48.3	53.7	- 3.4	82	0	4	0.42	- 0.39	42.3	+ 11.7	38	+ 10
	Cally	63	38	59.4	44.0	51.2	- 5.8	64	0	3	0.80	- 0.15	*	*	*	*
	Douglas (Isle of Man)	62	42	61.4	46.7	53.5	- 3.8	81	0	4	0.47	- 0.28	44.5	+ 2.2	40	+ 1
	Newton Reigny	63	40	60.9	46.3	53.1	- 3.9	78	0	6	0.30	—	38.8	—	35	—
7. ENGLAND, N.W.	Stonyhurst	62	45	60.4	48.3	53.9	- 4.3	83	0	4	0.56	- 0.48	39.9	+ 2.8	36	+ 2
	Blackpool	62	47	60.6	52.0	56.0	- 3.6	98	0	3	0.36	- 0.37	49.8	+ 11.3	45	+ 10
	Manchester (Prestwich)	65	45	62.0	48.8	54.9	- 3.8	90	0	5	0.39	- 0.44	25.1	—	23	—
	Liverpool Obsy. (Bidston)	63	49	60.6	52.3	56.2	- 3.7	99	0	3	0.13	- 0.52	39.6	—	37	—
	Chester	66	40	62.6	50.0	55.9	- 4.1	97	0	4	0.36	—	*	*	*	*
	Llandudno	64	47	62.4	51.6	56.6	- 3.5	102	0	5	0.11	- 0.48	42.4	+ 3.5	39	+ 3
8. ENGLAND, S.W.	Holyhead	62	48	60.1	50.9	55.2	- 3.6	92	0	3	0.27	- 0.33	*	*	*	*
	Llandoverly	67	39	65.0	48.4	56.1	- 3.1	99	0	4	0.37	- 0.58	*	*	*	*
	Pembroke	61	49	60.0	52.7	56.1	- 2.8	99	0	1	0.03	- 0.57	48.9	+ 3.7	46	+ 4
	Clifton	67	51	63.9	53.7	58.4	- 2.3	115	0	3	0.29	- 0.43	*	*	*	*
	Bath	66	46	64.6	51.9	57.8	- 3.6	111	0	5	0.34	—	27.1	—	26	—
	Arlington (N. Devon)	64	43	60.7	49.7	54.8	- 3.9	90	0	2	0.33	- 0.71	*	*	*	*
9. IRELAND, N.	Cullompton	66	43	64.2	50.5	56.9	- 3.8	104	0	4	0.16	- 0.49	23.1	- 18.9	22	- 18
	Falmouth	65	51	62.9	53.3	57.8	- 2.5	111	0	3	0.22	- 0.51	53.0	+ 3.3	50	+ 2
	Plymouth	68	46	64.1	53.1	58.2	- 2.9	113	0	5	0.21	- 0.43	32.2	- 13.7	30	- 14
	Malin Head	62	49	58.1	49.4	53.5	- 4.0	81	0	7	0.78	+ 0.08	*	*	*	*
	Edenfel (Omagh)	62	42	59.6	47.9	53.3	- 3.2	79	0	6	0.61	- 0.21	*	*	*	*
	Blacksod Point	61	44	59.7	49.7	54.4	- 3.6	87	0	6	0.27	- 0.58	*	*	*	*
10. IRELAND, S.	Markree Castle	63	42	61.0	44.8	52.3	- 4.5	72	0	6	0.58	- 0.28	18.5	- 10.6	17	- 10
	Armagh	66	44	62.1	48.1	54.6	- 3.0	88	0	6	0.41	- 0.32	27.7	- 2.5	25	- 3
	Donaghadee	63	42	60.6	47.0	53.3	- 4.1	79	0	6	0.69	+ 0.01	*	*	*	*
	Dublin	66	48	63.6	51.2	57.0	- 2.9	105	0	3	0.27	- 0.36	39.6	+ 2.4	37	+ 3
	Parsonstown	65	41	62.6	46.6	54.0	- 4.4	84	0	5	0.20	- 0.55	38.1	+ 6.7	35	+ 6
	Kilkenny	66	44	63.6	48.4	55.5	- 3.3	95	0	3	0.10	- 0.56	*	*	*	*
CHANNEL ISLANDS	Roche's Point	66†	51	61.6	52.0	56.5	- 3.2	102	0	4	0.28	- 0.47	*	*	*	*
	Valencia	62	47	60.7	51.7	55.9	- 3.1	97	0	6	0.17	- 0.83	30.7	- 3.8	29	- 4
	Killarney	69	44	64.8	50.7	57.3	- 1.6	107	0	1	0.09	- 0.81	*	*	*	*
	Foynes	67	49	61.9	51.0	56.1	- 2.0	99	0	5	0.47	- 0.33	*	*	*	*
	Scilly (St. Mary's)	64	55	63.3	55.3	59.0	- 1.7	119	0	1	0.13	- 0.41	48.3	—	46	—
	Jersey	69	50	65.7	54.4	59.7	- 3.0	124	0	2	0.25	- 0.29	53.6	- 1.7	51	- 2

* Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine

Recorders are in use.

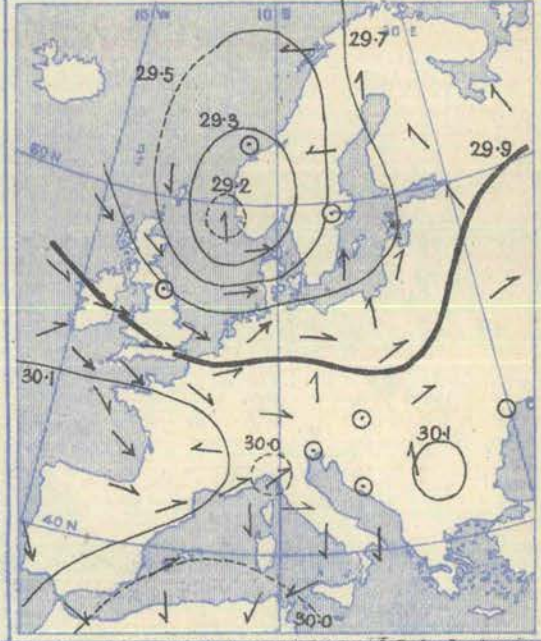
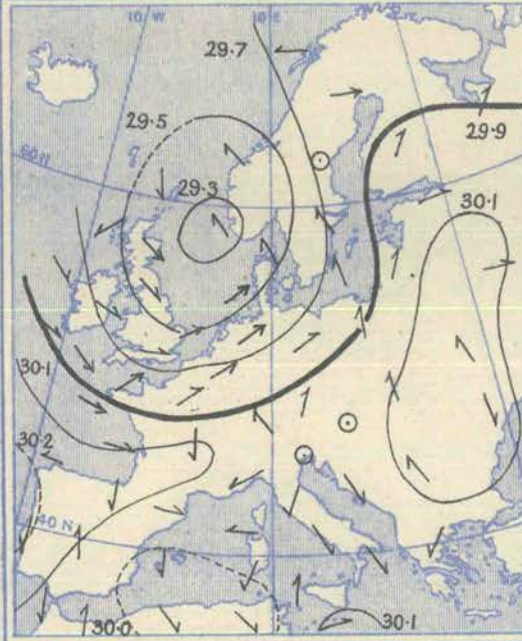
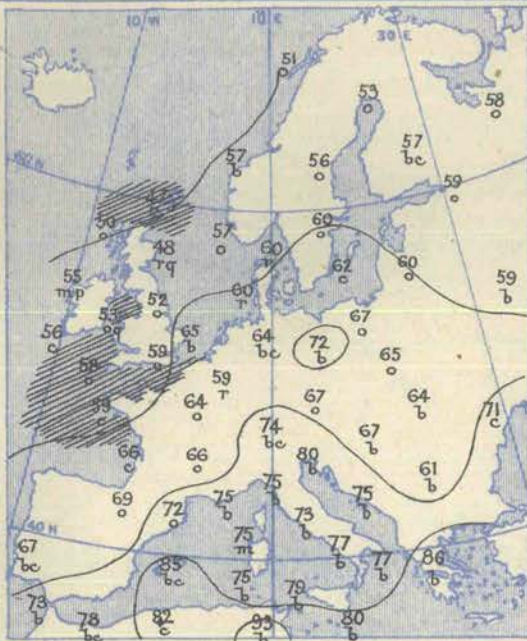
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Barometer and Wind.

8 a.m.

6 p.m.



Wind moderate from the Northward on the north coasts of Scotland and Ireland; strong from the North-Westward on many parts of our western coasts, and from the South-Westward over England, the Netherlands, Denmark, and north Germany, with a gale at Frankfurt; Southerly or South-Easterly at the Scandinavian stations. Light and rather variable over southern Europe, but chiefly Northerly (North-Easterly to North-Westerly). Subsequently backing to South-West at Valencia, and to the Westward on our western coasts generally; no important change occurring elsewhere.

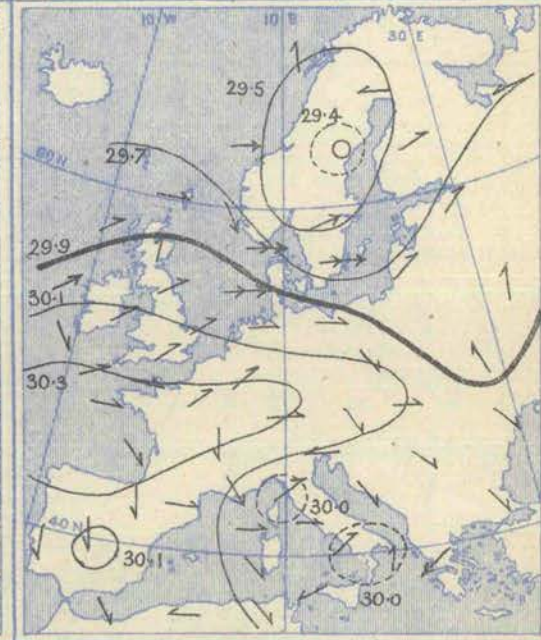
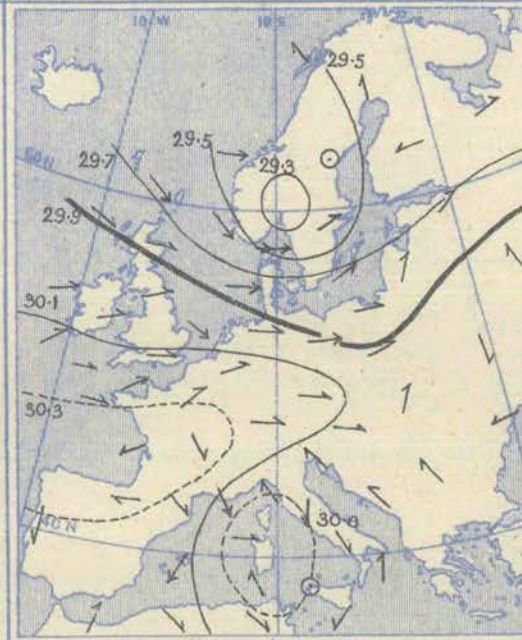
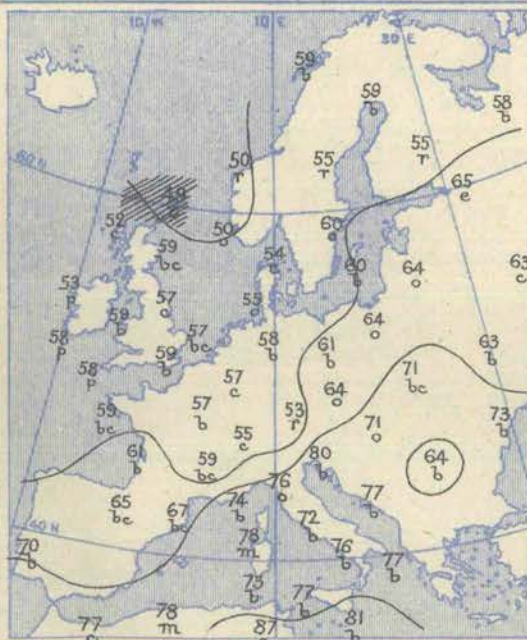
Barometer highest, 30.2 ins. and upwards in an anticyclone off the Portuguese coasts; 30.1 ins. and upwards in another system over eastern Austria, and the south-western parts of Russia. Lowest, 29.3 ins. and less in a well marked cyclonic system, with its centre off the south-west of Norway. Anticyclone off Portuguese coast subsequently spreading north-eastwards over the Bay of Biscay and the south-west of France; cyclonic disturbance in north also moving slowly north-eastwards over the south of Norway.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



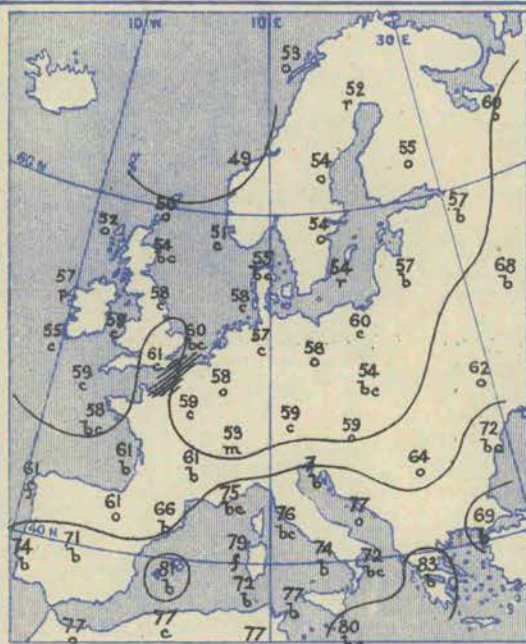
Wind in morning showing two distinct cyclonic circulations—one around Norway, and the other around Sardinia and Corsica. Only moderate or fresh in force as a whole, but Westerly current in the north of Denmark, and the Southerly current in the south of Sweden, strong to a gale. Light anticyclonic airs prevailing over the west of France and the Bay of Biscay. No change of importance later.

Barometer fallen both over Scandinavia and Italy; risen over our Islands, France, and central Europe. Readings at 8 a.m., highest, 30.3 ins. and upwards over the Bay of Biscay and the greater part of France. Lowest, 29.3 ins. and less over the south of Norway, and below 30.0 ins. in a low pressure system over the Mediterranean. Norwegian disturbance moving north-eastwards and becoming less deep during day, and that in the south apparently breaking into two parts. Anticyclonic area extending Eastwards to south Germany.

Tuesday, 29th July.

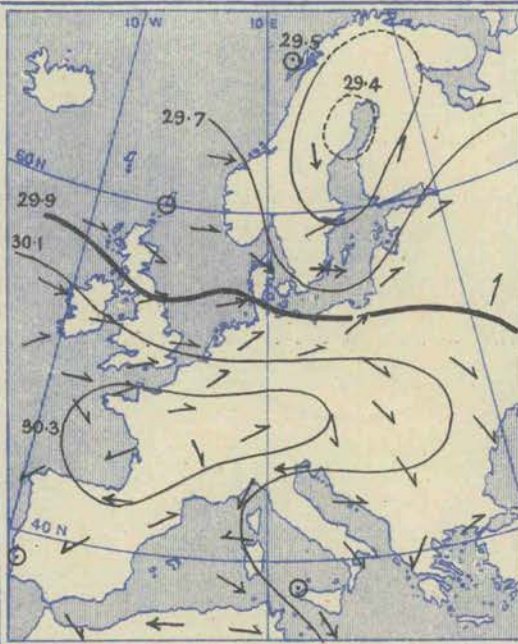
Temperature and Weather.

8 a.m.

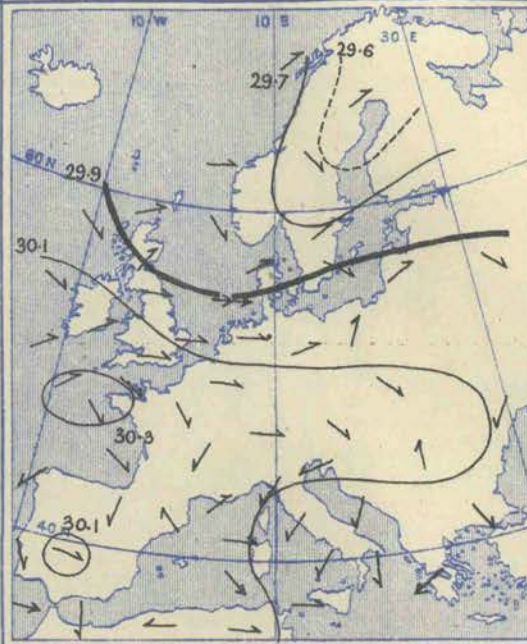


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over France, Germany, and the greater part of the United Kingdom; dull and rainy over northern Europe, showery in the north of Ireland, and unsettled in Scotland. Rain in small quantities later over the western and northern parts of the British Islands, in some parts of Scandinavia and over Germany, and much at Turin.

Temperature fallen over central Europe, not much changed elsewhere. Morning readings highest, 83° at Athens, 81° at Palma, 77° at Algiers and Marseilles, and above 70° over the Mediterranean generally; above 60° over some parts of France and England and Russia. Lowest, 49° at Christiansund, 50° in the extreme north-east of Scotland, 52° at Stornoway, 54° at Aberdeen. Rising later to 71° in London, 72° at Berlin, 79° at Biarritz, 87° at Perpignan, 90° at Lisbon, 91° at Rome, Tunis, and Aumale, 104° at Laghouat, and 109° at Biskra.

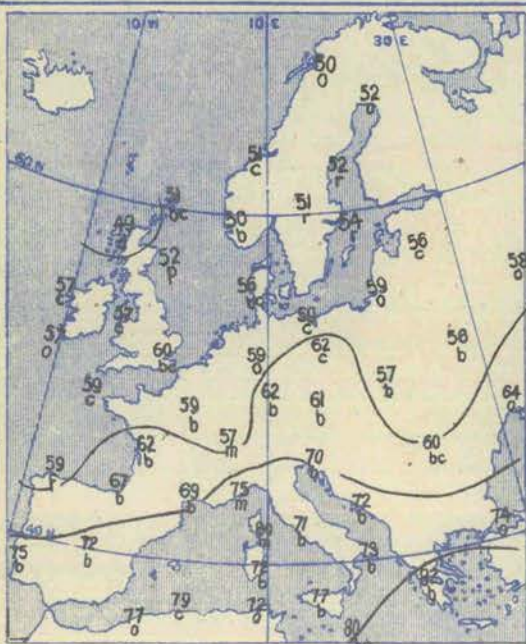
Wind Westerly over the greater part of the British Islands and central Europe, a cyclonic circulation over Finland and the northern half of the Gulf of Bothnia; nearly calm over central France, Easterly over southern Europe, North-Westerly over the southern parts of Italy and Sardinia. Little change later, but the cyclonic systems showing a tendency to move eastwards.

Barometer highest, 30.3 ins. to 30.2 ins. in an elongated anticyclonic system covering the Bay of Biscay, France, and south Germany. Lowest, 29.4 ins. and less in a depression over the Gulf of Bothnia, 29.8 ins. and less in a secondary system over the east of Scotland; 30.0 ins. and less in another depression over south-eastern Europe. Another local depression near Madrid later, the others passing off Eastwards.

Wednesday, 30th July.

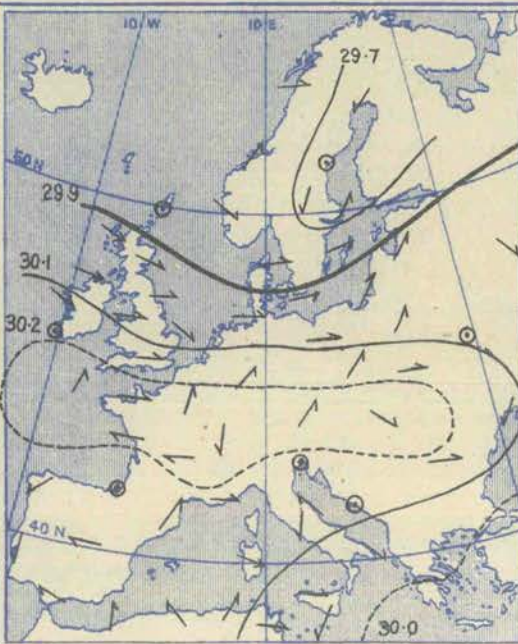
Temperature and Weather.

8 a.m.

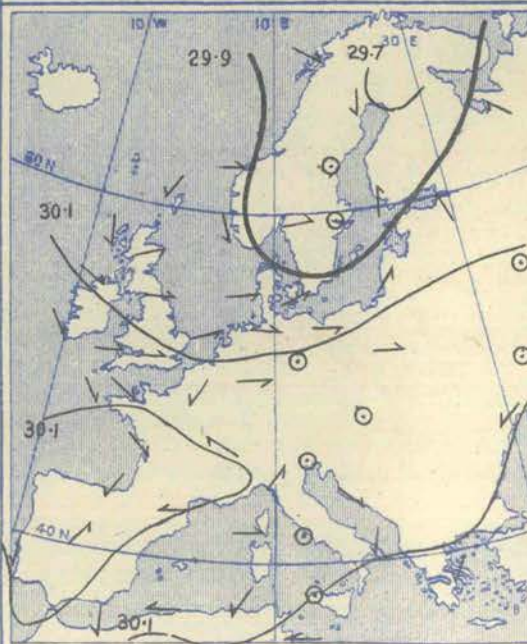


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the east and south-east of England, but cloudy in other parts of our Islands, with showers at several of our northern stations. Fine over the Netherlands, France, and the whole of southern Europe; cloudy in the northern and central countries, and rainy in most parts of Sweden. Showers falling during day in all but the eastern parts of the United Kingdom, and steady rain over northern Russia; thunder and hail occurring at Aberdeen in afternoon.

Temperature fallen slightly in our Islands, and also in Austria and Italy, risen in Germany, changed very irregularly elsewhere. Morning readings highest, 82° at Patras, 80° at Sanguinaire, Athens, and Malta, and 79° at Barcelona and Algiers; above 70° over southern Europe generally. Lowest, 49° at Wick, 49° at Stornoway, and 50° at Bodö and Skudenes; below 55° in most parts of Scotland and Scandinavia. Daily maxima below 60° on our north and north-west coasts, but thermometer exceeding 65° at many of our eastern and southern stations, and reaching 69° at Jersey. Exceeding 80° in most parts of southern Europe, the highest readings reported being 100° at Madrid, and 99° at Sanguinaire.

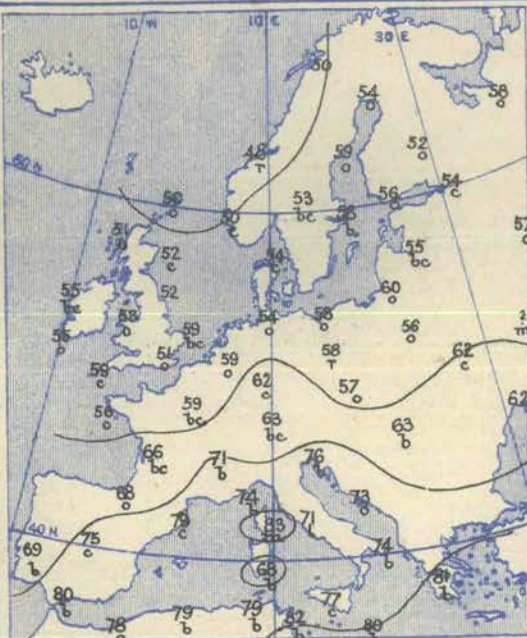
Wind Westerly or North-Westerly over the greater part of our Islands and the North Sea, but South-Westerly on our extreme south-west coasts; light or moderate in force generally, but fresh or strong in the Hebrides and the north of Ireland. South-Westerly over Germany, the Baltic, and the south of Sweden. Light from the Northward (North-East to North-West) over Italy and Greece; variable over the Spanish Peninsula and the south of France. Subsequently veering to the Northward on some parts of our own extreme western and northern coasts; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in a long band stretching from the Atlantic across the English Channel and the northern and central parts of France to south Germany, Switzerland, and Austria. Lowest, 29.7 ins. and upwards in a large shallow area over the Gulf of Bothnia; (reports from Finland not received.) Anticyclonic band giving way gradually during day; low-pressure system over the Gulf of Bothnia moving away to the north-eastward.

Thursday, 31st July.

Temperature and Weather.

8 a.m.

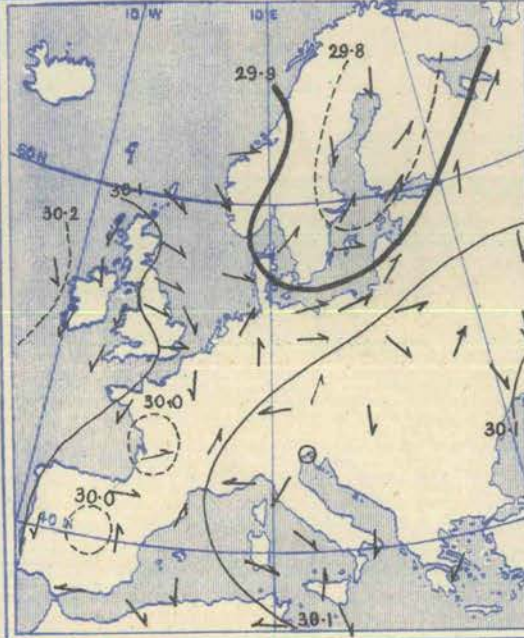


Weather in morning fair or fine over western and southern Europe as a whole, but dull at several of the English and Irish stations, with rain at Dungeness. Cloudy and unsettled in most of the northern and central countries, with rain at Helsingfors, Christiansund, Fano and Berlin. Rain falling later in the extreme west and north of our Islands, and also in many parts of Scandinavia and Germany.

Temperature fallen in Ireland, England, Denmark and Germany, but risen elsewhere. Morning readings highest, 83° at Sanguinaire, 82° at Tunis, and 81° at Patras and Malta; above 75° at most of the Mediterranean and Adriatic stations. Lowest 48° at Christiansund and 60° at Bodø, Skudesnaes and Sumburgh Head; below 55° over the northern and central parts of the United Kingdom generally, and also over the northern parts of the continent. Daily maxima below 60° at several of our own northern stations, but thermometer reaching 66° in London and 67° at Oxford; exceeding 80° in most parts of southern Europe, the highest readings reported being 100° at Madrid, 99° at Sanguinaire, and 93° at San Fernando.

Barometer and Wind.

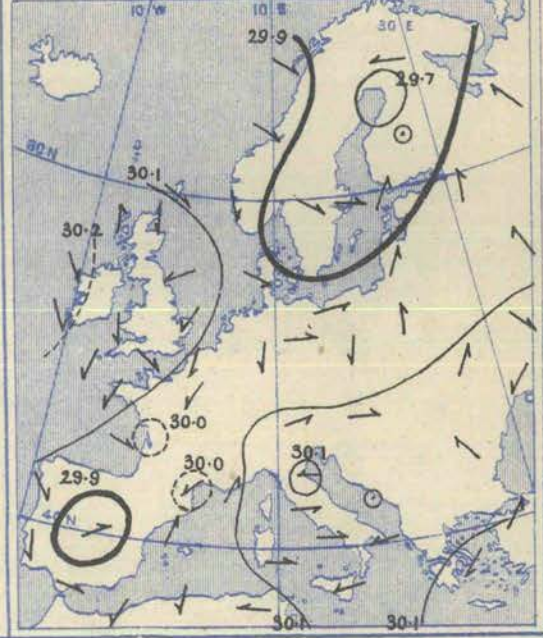
8 a.m.



Wind light from the Northward or North-Westward over the United Kingdom; moderate to strong from North-West on the eastern shores of the North Sea; South-Westerly over the Baltic and northern Russia, but light from the northward over the Gulf of Bothnia. North-Easterly in the north of France, but Westerly or South-Westerly in the south of that country; Northerly in Italy; variable over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30.1 ins. and upwards in an anticyclone extending from the Atlantic over all the more western and northern parts of the United Kingdom, and also in another system over Italy and the whole of eastern Europe. Lowest, 29.8 ins. and less in a large shallow area over Sweden and Finland; 30.0 ins. and less in a still shallower system over the west of France. Atlantic anticyclone spreading later over the whole of our islands and the adjacent parts of the North Sea, but new depression appearing over central Spain in evening.

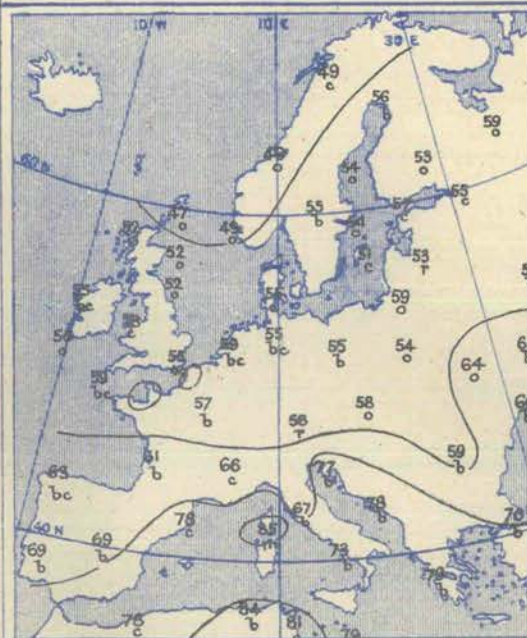
6 p.m.



Friday, 1st August.

Temperature and Weather.

8 a.m.

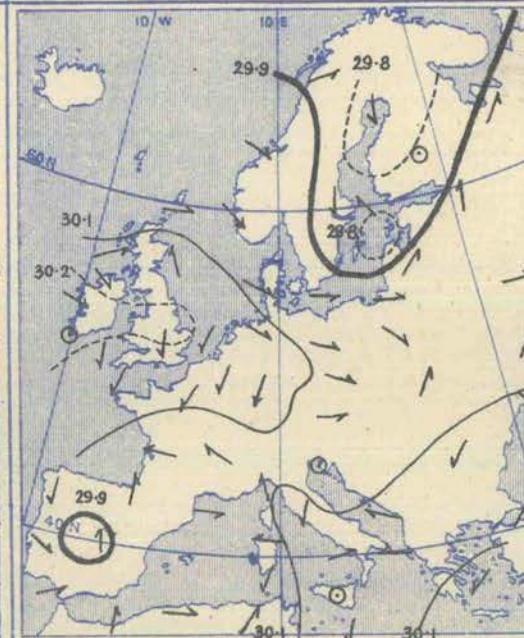


Weather in morning cloudy or dull in most of the more northern and central regions and fine in the south and south-east. Rainy at Munich. Rain falling later at some of our own western and northern stations, and in different parts of France and Germany, and also at Bodø. Thunderstorms occurring over eastern and central France.

Temperature fallen somewhat in most localities. Readings at 8 a.m. highest, 85° at Sanguinaire, 84° at La Calle, 81° at Tunis, 79° at Patras, 78° at Barcelona, and 77° at Trieste. Lowest, 47° at Trieste and 52° at Loughborough, 53° at Riga, and 54° or 55° on the west coast of Brittany. Not touching 60° at some of our northern and western stations during day, and remaining below 70° over the whole of the United Kingdom; rising to above 80° in the south of France and southern Europe generally, to 93° at Madrid, 97° at Sanguinaire, and to 104° at Algiers.

Barometer and Wind.

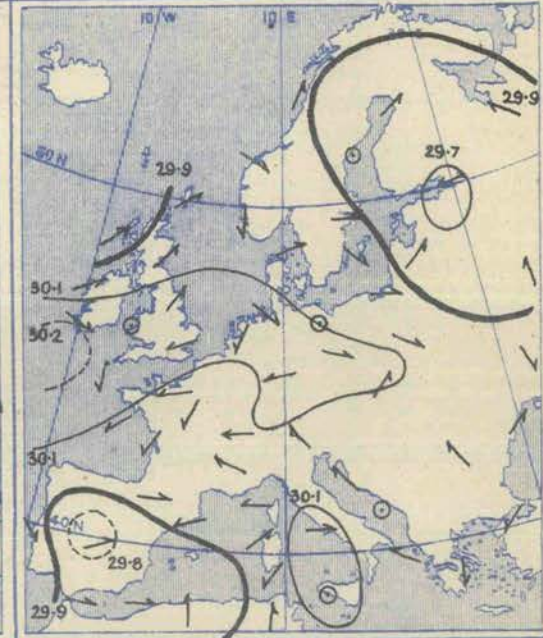
8 a.m.



Wind light and anticyclonic over the United Kingdom, the North Sea, and the adjacent parts of the Continent. Light and cyclonic over northern Europe, and irregularly cyclonic over the Mediterranean. Not much change as a whole later, but a fresh cyclonic circulation setting in over the Iberian Peninsula, and South-Westerly current increasing in force on our north-west coasts.

Barometer at 8 a.m. highest, 30.1 ins. to 30.2 ins. in an area of high pressure stretching from the Atlantic across our Islands and the North Sea to Germany. Lowest, 29.8 ins. and less in a complex disturbance over the Gulf of Bothnia and the Baltic; 29.9 ins. in another system over central Spain. Last named system becoming deeper by evening, and that over northern Europe travelling Eastwards. A new depression approaching our extreme north-western coasts from the Westward, and barometer in that region falling briskly.

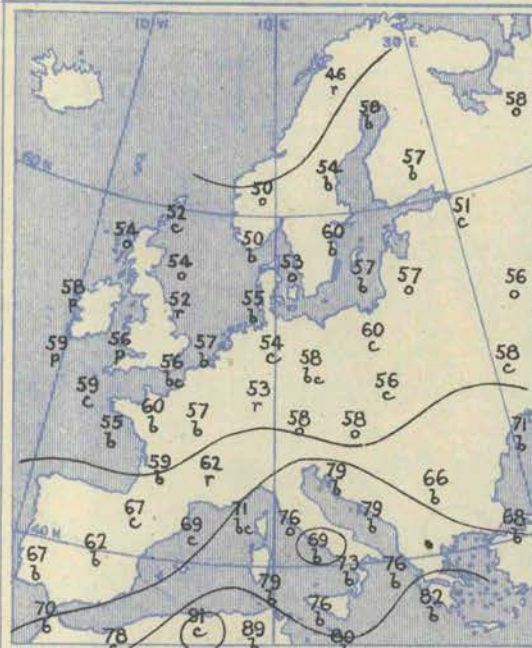
6 p.m.



Saturday, 2nd August.

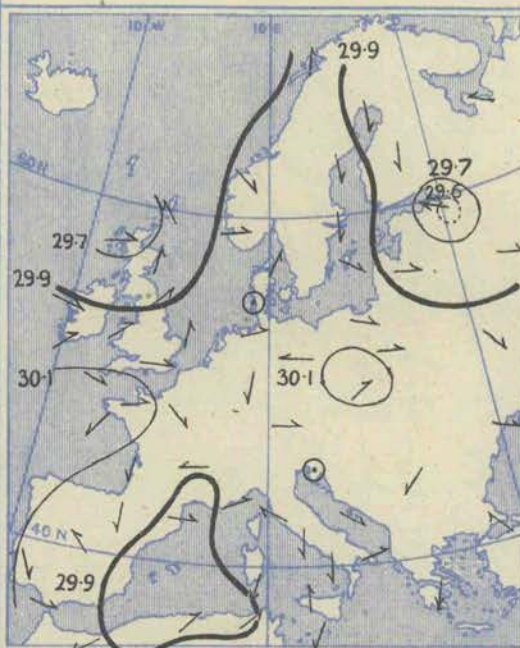
Temperature and Weather.

8 a.m.

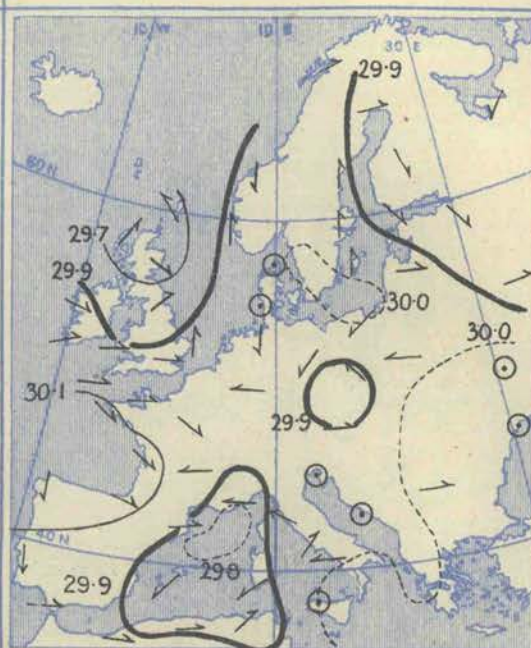


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over southern Europe and the Mediterranean, and also in Sweden; cloudy or dull in almost all other regions, and rainy at Frankfurt and Bodö, and at some of our own stations. Rain falling later in most parts of the United Kingdom, and in many Continental localities—as much as 1.4 ins. at Turin. Thunderstorms occurring in the south and east of France.

Temperature changed irregularly. Readings at 8 a.m. highest, 91° at Algiers, 86° at Athens, 79° on the eastern shores of the Adriatic, 76° at Leghorn, and 70° at San Fernando and Cape Sicie. Lowest, 46° at Bodö, 51° at St. Petersburg, 52° at Wick, in the Shetlands, and at Shields, 53° at Copenhagen, Frankfurt, and Warsaw, and below 60° over the northern half of Europe generally. Rising subsequently to 69° in London, to 80° or above in most parts of southern Europe, to 93° at Florence, 97° at Tunis and Algiers, 99° at Sanguinaire and Patras, and to 104° at La Calle.

Wind in morning moderate from West or South-West over Ireland and England, and drawing into South in Scotland. A complete circulation of light cyclonic winds prevailing over Russia, and irregularly cyclonic breezes over the western portion of the Mediterranean. Not much change as a whole later, but Russian cyclonic circulation becoming less well marked, and a new movement of cyclonic airs setting in over central Europe.

Barometer fallen in nearly all places. Readings at 8 a.m. ranging from 30.1 ins. and upwards in an anticyclone over central Europe, to 29.9 ins. and less in an irregularly shaped cyclonic system stretching from the south of France to Algeria, to below 29.7 ins. in another system off the north of Scotland, and to about 29.6 ins. in a disturbance near St. Petersburg. Russian and Scotch depressions moving eastwards later, and that over the Mediterranean growing deeper. A new low pressure system taking the place of the anticyclone over central Europe, and the barometer becoming highest over the Bay of Biscay.

GENERAL NOTES.

During the first half of this week pressure was high (1) off the west of Spain, and (2) over south-eastern Europe, the two regions being joined by a "col" which lay over the whole of southern Europe and the Mediterranean. A depression (which had passed across our Islands from the south-westward on the 28th) continued to move slowly over Scandinavia, and had not entirely disappeared over northern Europe till Wednesday. North-Westerly and Westerly winds were at first prevalent in the United Kingdom, Southernly to Easterly over Scandinavia, while over southern and eastern Europe there were variable anticyclonic airs and calms. The Russian high pressures gradually gave way, but the south-western system grew and spread eastwards, so that in the United Kingdom the winds became Westerly to South-Westerly

for a time, and the weather was showery (most in the west and north). Temperature was not high.

Then came a temporary change. The barometer rose and became highest over and off our western coasts, and a brief spell of Northerly and North-Westerly winds set in. They were of little strength, and much mingled with breezes from West and South-West, but temperature fell and became decidedly below the average as a new anticyclonic system stretched in over the British Islands from the westward.

The latter part of the week was marked by a return of cyclonic breezes to our neighbourhood, and the week closed with a continuation of dull, unsettled weather in the United Kingdom.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 182.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	32.6	+ 2.8	28	+ 2	WORKSOP	31.6	- 3.7	29	- 4	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	37.1	+ 9.0	33	+ 8	THURCASTON	35.9	- 2.9	33	- 3	SOUTHPORT	41.7	—	38	—
EDINBURGH	36.7	+ 4.1	33	+ 4	MARGATE	42.3	- 1.7	40	- 2	RHYL	—	—	—	—
MORPETH	43.2	—	39	—	BROADSTAIRS	—	—	—	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	30.5	—	23	—	EASTBOURNE	40.7	- 0.5	47	0	ABERDOVEY	47.0†	—	44†	—
YORK	40.5	+ 3.5	37	+ 2	BRIGHTON	35.3	- 15.7	33	- 15	TENBY	—	—	—	—
CROMER	55.4	—	51	—	WORTHING	33.4	—	32	—	NEWQUAY	44.2	- 3.3	42	- 3
LOWESTOFT	49.1	—	46	—	BOGNOR	30.2†	—	23†	—	TORQUAY	32.2	- 16.3	30	- 16
DUNMOW	30.3	—	23	—	WATERGATE	22.3†	—	22	—	GUERNSEY	61.9†	+ 5.5	59†	+ 5
HOLLESLEY BAY	44.2	—	41	—	WESTBOURNE	23.3†	- 25.9	22†	- 25					
SHEFFIELD	38.2	—	31	—	VENTNOR HOSPITAL	37.6	- 10.0	35	- 10					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature.						Rainfall.			Bright Sunshine.			
		(In Degrees Fahrenheit.)												
		Highest observed.	Lowest observed.	Averages for the Week.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending July 5th, 1902.	Liverpool	—	—	—	—	—	—	—	—	—	49.6	—	43	—
" " 5th "	Broadstairs	—	—	—	—	—	—	—	—	—	55.2	—	49	—
" " 19th "	York	—	—	—	—	—	—	—	—	—	48.4	+ 9.1	43	+ 8
" " 26th "	Newquay	—	—	—	—	—	—	—	—	—	29.0	- 18.7	27	- 18

Erratum.—In the Report for Week ending July 5th, on page 162, under "Reports received too late for insertion," the last two dates given should read June 14th and June 28th respectively.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.
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VOL. XIX. No. 32.]
Fourth Series.

WEEK ENDING SATURDAY, AUGUST 9TH, 1902.

[Price 6d.
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post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 188.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	42	57.2	47.1	51.9	3 below	Day-deg. 69	Day-deg. -20	Day-deg. 0	Day-deg. 0	Day-deg. 1023	Day-deg. -200	Day-deg. 660	Day-deg. +91
	1. SCOTLAND, EAST	72	35	58.1	46.8	52.2	4 below	71	-32	0	0	1170	-318	727	+109
	2. ENGLAND, N.E.	69	40	59.7	48.5	53.8	5 below	83	-32	0	0	1444	-147	522	+13
	3. ENGLAND, EAST	73	40	65.1	50.5	57.3	3 below	107	-20	0	0	1729	-135	516	-41
	4. MIDLAND COUNTIES	71	41	63.4	49.6	56.1	3 below	99	-24	0	0	1688	-177	523	-43
5. ENGLAND, SOUTH	76	43	65.8	54.3	59.7	1 below	124	-12	0	0	1797	-229	358	-55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	65	38	60.0	48.1	53.7	3 below	82	-24	0	0	1410	-166	483	+50
	7. ENGLAND, N.W.	67	41	60.5	49.4	54.6	4 below	88	-30	0	0	1527	-183	421	+6
	8. ENGLAND, S.W.	71	40	65.1	53.0	58.7	1 below	117	-7	0	0	1766	-138	324	+6
	9. IRELAND, NORTH	68	43	59.3	49.6	54.2	3 below	85	-24	0	0	1422	-256	339	-28
	10. IRELAND, SOUTH	72	40	64.0	51.2	57.3	2 below	107	-11	0	0	1785	-141	240	-28
— CHANNEL ISLANDS	70	55	65.8	57.7	61.5	0 (average)	137	-1	0	0	2084	-72	99	-24	

DISTRICTS. (See p. 188.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 4	10ths of in. 5 less	156	+19	26.9	-0.5	19	-8	17	-7	772	-38	26	-1	
	1. SCOTLAND, EAST	4	6	1 less	129	+13	15.1	-2.5	16	-10	15	-18	801	-114	27	-4	
	2. ENGLAND, N.E.	5	8	2 more	113	+6	13.4	-0.7	17	-19	15	-18	869	-41	29	-2	
	3. ENGLAND, EAST	6	15	10 more	110	+1	14.3	+0.3	25	-21	24	-20	1075	-59	35	-2	
	4. MIDLAND COUNTIES	5	15	9 more	106	+2	14.4	-1.3	21	-17	20	-17	897	-33	32	-1	
5. ENGLAND, SOUTH	5	6	1 more	104	+4	13.8	-1.5	28	-19	27	-18	1098*	-67	36	-3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	8	2 less	140	+19	27.7*	0.0	29	-7	27	-6	880	-82	30	-3	
	7. ENGLAND, N.W.	5	9	1 more	130	+18	16.9	-1.6	30	-5	28	-5	1009	+34	35	+2	
	8. ENGLAND, S.W.	5	7	1 less	114	-1	17.7	-4.3	30	-15	29	-15	1046*	-110	36	-4	
	9. IRELAND, NORTH	4	3	6 less	154	+21	21.6	+2.0	18	-12	16	-12	847	-42	29	-1	
	10. IRELAND, SOUTH	4	17	9 more	123	0	20.3*	-2.6	32	-3	30	-3	959	-42	33	-1	
— CHANNEL ISLANDS	5	7	2 more	119	+3	15.9	-1.4	36	-17	35	-17	1185	-128	41	-5		

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was again cold and unseasonable, with much cloud and frequent rain in all districts. Thunderstorms occurred in several localities, the most important being those experienced over eastern England on Wednesday and Thursday.

Temperature was below the mean in all parts of the Kingdom except the Channel Islands. The deficit ranged from 1° in England S. and S.W., and 2° in Ireland S., to 4° in England N.W. and Scotland E., and to 5° in England N.E. The highest of the maxima were registered on very irregular dates, and varied from 76° in England S., and a little above 70° in several other districts, to 65° and 64° respectively in Scotland W. and N. The lowest of the minima, which were recorded towards the end of the week, ranged from 35° in Scotland E., and 38° in Scotland W., to 40° or a few degrees above over the Kingdom as a whole, and to 55° in the Channel Islands.

Rainfall was much in excess of the mean over eastern and central England, and also in the south of Ireland, and rather more than the normal amount in the Channel Islands and nearly all the other English districts. In England S.W., Ireland N., and over Scotland, however, there was a deficit.

Bright Sunshine was very deficient throughout the entire Kingdom. The percentage of the possible duration ranged from 35 in the Channel Islands, 30 in Ireland S., and 29 in England S.W., to 20 in the Midland Counties, 16 in Ireland N., and to 15 in Scotland E. and England N.E.

Barometer and Wind. At the commencement of the week a depression of little depth lay over Scotland, while the barometer was highest over France and the Bay of Biscay, and the wind was consequently moderate from between North and North-West over the greater part of the Kingdom, and Easterly in the Shetlands. On Monday this system lay over the North Sea, and as the mercury had risen in the far north, there were two areas of relatively high pressure. This complex distribution continued, with some little modification, as fresh disturbances arrived from the westward, until towards the end of the period; the general direction of the wind was South-Westerly or Westerly in the south, and from some Northerly point in the more northern districts. By Saturday, however, the barometer had become highest in the west, a cyclonic system lay over Scandinavia, and a cold North-Westerly wind current prevailed throughout the Kingdom.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.				
		In Degrees Fahrenheit.						Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.										
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°		Inches.	Inches.					
O. SCOTLAND, N.	Sumburgh Head	55	43	53.3	46.0	49.4	- 3.6	52	0	6	0.35	- 0.32	*	*	*	*	
	Stornoway	60	45	58.9	47.1	52.7	- 1.6	75	0	3	0.41	- 0.37	24.5	- 5.9	22	- 6	
	Wick	59	42	56.4	46.3	51.1	- 3.6	64	0	5	0.33	- 0.24	*	*	*	*	
	Laig	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	
	Glencarron	60	44	56.4	46.5	51.2	- 3.3	64	0	4	0.53	- 0.92	*	*	*	*	
	Fort Augustus	63	43	58.3	47.9	52.8	- 3.7	76	0	3	0.42	- 0.28	14.2	- 6.4	13	- 0	
	Fort William	64	46	59.9	48.8	54.0	- 2.9	84	0	3	0.39	- 0.87	23.7	- 0.8	22	- 1	
1. SCOTLAND, E.	Nairn	62	45	59.1	47.3	52.9	- 3.6	76	0	5	0.80	+ 0.19	*	*	*	*	
	Aberdeen	59	43	56.1	47.3	51.4	- 5.0	66	0	5	1.33	+ 0.67	15.8	- 19.7	14	- 19	
	Braemar	60	35	53.9	44.4	48.9	- 4.8	48	0	5	0.68	- 0.12	*	*	*	*	
	Ochertyre	72	44	62.0	47.0	54.1	- 3.3	85	0	5	0.72	- 0.11	*	*	*	*	
	Leith	68	49	60.9	49.9	55.1	- 3.1	92	0	3	0.15	- 0.43	*	*	*	*	
	Marchmont	63	42	56.7	44.9	50.5	- 5.6	60	0	3	0.15	- 0.62	20.0	- 16.0	18	- 15	
2. ENGLAND, N.E.	Alnwick Castle	63	46	58.6	48.6	53.3	- 3.6	79	0	5	0.66	- 0.02	*	*	*	*	
	Durham	62	41	57.9	46.3	51.8	- 6.5	69	0	4	0.50	- 0.14	13.1	- 21.7	12	- 20	
	Shields	65	46	57.6	49.1	53.1	- 4.3	78	0	4	0.35	- 0.28	*	*	*	*	
	Scarborough	63	40	60.6	44.9	52.3	- 6.1	72	0	7	0.92	+ 0.30	17.6	—	16	—	
	Spurn Head	66	49	60.9	51.6	56.0	- 3.4	98	0	3	0.45	+ 0.04	*	*	*	*	
	Fulbeck (Lincolnshire)	69	45	62.3	50.6	56.1	- 3.3	99	0	5	1.69	+ 1.15	*	*	*	*	
3. ENGLAND, E.	Hillington	70	40	65.1	48.7	56.4	- 3.6	101	0	6	2.29	+ 1.67	26.3	- 15.3	25	- 15	
	Yarmouth	67	41	62.9	50.3	56.2	- 3.9	99	0	6	2.44	+ 1.92	*	*	*	*	
	Geldeston	73	42	64.7	48.9	56.3	- 3.7	100	0	6	1.21	+ 0.74	22.0	- 22.6	21	- 22	
	Cambridge	72	42	67.2	50.1	58.1	- 3.0	113	0	5	1.25	+ 0.72	22.0	- 21.3	21	- 21	
	Felixstowe	69	44	65.4	53.4	59.0	- 1.5	119	0	7	0.67	—	29.8†	—	28†	—	
	Rothamsted	69	43	65.0	51.4	57.8	- 2.0	111	0	5	1.15	+ 0.59	20.3	- 23.9	19	- 23	
4. MIDLAND COUNTIES	Harrogate	63	45	59.0	48.2	53.3	- 4.3	79	0	4	1.40	+ 0.78	24.1	—	23	—	
	Bawtry (Hesley Hall)	67	44	62.0	46.9	54.0	- 5.6	84	0	4	1.23	+ 0.71	*	*	*	*	
	Loughborough	68	46	63.1	51.0	56.7	- 4.0	103	0	6	2.12	+ 1.58	*	*	*	*	
	Colly Weston (Stamford)	71	44	65.7	49.9	57.3	- 3.5	107	0	6	2.07	+ 1.52	*	*	*	*	
	Cheadle	65	44	59.6	48.1	53.5	- 4.0	81	0	6	1.18	+ 0.42	*	*	*	*	
	Birmingham (Mid. Inst. Obs.)	70	46	62.7	50.6	56.3	- 2.9	100	0	6	1.95	+ 1.34	13.4	—	13	—	
	Churchstoke	71	38	63.9	47.5	55.2	- 2.6	92	0	5	1.61	+ 1.04	29.8	- 9.5	28	- 9	
	Hereford	70	41	64.9	50.5	57.3	- 2.8	107	0	5	1.10	+ 0.56	*	*	*	*	
	Cirencester	71	42	66.7	51.0	58.4	- 0.4	115	0	7	0.89	+ 0.22	23.4	- 18.7	22	- 19	
	Oxford	70	46	65.9	52.3	58.7	- 2.0	117	0	5	0.93	+ 0.40	17.8	- 24.7	17	- 24	
5. ENGLAND, S.	London	76	48	67.6	54.4	60.6	- 1.5	130	0	6	0.46	- 0.05	15.4†	- 24.4†	15†	- 24†	
	Swarraton (Alresford)	70	43	66.2	52.8	59.1	+ 0.2	120	0	4	0.99	+ 0.37	*	*	*	*	
	Dungeness	69	45	66.1	55.7	60.6	- 0.9	130	0	5	0.42	+ 0.02	30.2	—	29	—	
	Hastings (St. Leonards)	66	45	64.6	54.5	59.3	- 1.9	121	0	6	0.88	+ 0.35	34.9	- 14.3	34	- 15	
	Southampton	70	49	67.9	55.3	61.2	- 0.9	134	0	5	0.60	+ 0.01	24.2	- 23.4	23	- 23	
	Portland Bill	64	51	63.0	55.6	59.1	- 1.4	120	0	4	0.73	—	*	*	*	*	
	Shaftesbury	67	45	65.3	51.7	58.1	- 1.3	113	0	5	0.42	- 0.21	*	*	*	*	
6. SCOTLAND, W.	Laudale (Loch Sunart)	65	45	61.1	48.6	54.5	- 2.5	88	0	4	0.46	- 0.76	*	*	*	*	
	Glasgow	64	47	58.7	49.3	53.7	- 3.1	82	0	1	0.01	- 0.85	25.9	- 3.8	24	- 4	
	Cally	65	43	60.1	46.4	52.8	- 4.0	76	0	4	1.19	+ 0.20	*	*	*	*	
	Douglas (Isle of Man)	64	38	60.2	48.0	53.7	- 3.4	82	0	6	1.32	+ 0.52	31.5	- 9.1	29	- 9	
7. ENGLAND, N.W.	Newton Reigny	65	41	59.6	45.9	52.3	- 4.2	72	0	4	0.25	—	21.8	—	20	—	
	Stonyhurst	63	42	58.3	47.6	52.6	- 5.5	74	0	6	1.32	+ 0.22	27.1	- 8.2	25	- 8	
	Blackpool	64	41	60.4	50.1	54.9	- 4.4	90	0	5	0.63	- 0.12	31.6	- 5.2	30	- 5	
	Manchester (Prestwich)	65	42	60.0	48.1	53.7	- 4.7	82	0	6	0.72	- 0.11	20.0	—	19	—	
	Liverpool Obsy. (Bidston)	66	49	61.1	51.3	55.9	- 3.8	97	0	5	0.89	+ 0.24	30.6	—	29	—	
	Chester	67	47	62.6	49.6	55.7	- 4.3	96	0	7	1.40	—	*	*	*	*	
	Llandudno	64	44	62.1	51.4	56.4	- 3.6	101	0	5	0.86	+ 0.24	37.0	- 1.0	35	- 1	
	Holyhead	63	47	60.0	51.0	55.2	- 3.7	92	0	4	0.74	+ 0.11	*	*	*	*	
8. ENGLAND, S.W.	Llandovery	70	40	66.0	48.7	56.8	- 2.3	104	0	7	0.92	- 0.08	*	*	*	*	
	Pembroke	64	50	61.9	53.9	57.7	- 1.3	110	0	5	0.80	+ 0.18	31.9	- 12.8	30	- 13	
	Clifton	—	—	—	—	—	—	—	—	—	—	*	*	*	*		
	Bath	70	46	66.9	54.9	60.5	- 0.5	130	0	6	0.41	—	26.6	—	26	—	
	Arlington (N. Devon)	68	44	64.3	50.7	57.1	- 1.3	106	0	5	0.49	- 0.58	*	*	*	*	
	Cullompton	71	43	67.2	52.8	59.6	- 0.8	123	0	6	0.60	- 0.05	22.6	- 19.4	22	- 19	
	Falmouth	68	51	64.7	55.3	59.7	- 0.4	124	0	5	0.77	+ 0.01	36.0	- 13.0	35	- 14	
9. IRELAND, N.	Plymouth	69	48	65.0	54.9	59.7	- 1.3	124	0	4	0.56	- 0.09	28.5	- 17.0	27	- 17	
	Malin Head	61	49	57.7	50.1	53.7	- 4.0	82	0	3	0.25	- 0.46	*	*	*	*	
	Edenfel (Omagh)	68	43	59.6	48.4	53.7	- 3.0	82	0	4	0.22	- 0.63	*	*	*	*	
	Blacksod Point	63	44	60.0	51.7	55.6	- 2.2	95	0	4	0.18	- 0.81	*	*	*	*	
	Markree Castle	67	43	60.2	49.9	54.7	- 2.1	89	0	5	0.28	- 0.62	13.0	- 16.6	12	- 16	
	Armagh	64	44	60.5	48.0	53.9	- 3.6	83	0	4	0.14	- 0.60	22.0	- 7.0	21	- 7	
10. IRELAND, S.	Donaghadee	62	45	57.6	49.4	53.3	- 4.1	79	0	5	0.45	- 0.27	*	*	*	*	
	Dublin	64	45	62.2	51.2	56.4	- 3.0	101	0	4	1.41	+ 0.74	32.1	- 5.0	30	- 5	
	Parsonstown	68	43	64.3	49.9	56.7	- 1.8	103	0	3	1.43	+ 0.61	35.9	+ 4.2	34	+ 4	
	Kilkenny	67	40	64.7	49.9	56.9	- 2.0	104	0	3	1.57	+ 0.84	*	*	*	*	
	Roche's Point	65	50	62.7	53.0	57.6	- 1.8	109	0	6	0.67	- 0.16	*	*	*	*	
	Valencia	66	50	63.3	52.9	57.8	- 1.2	111	0	4	2.34	+ 1.28	27.1	- 7.7	26	- 8	
	Killarney	72	47	65.4	52.1	58.4	- 0.6	115	0	5	3.41	+ 2.41	*	*	*	*	
CHANNEL ISLANDS	Foynes	70	46	65.4	49.6	57.0	- 1.2	105	0	5	1.16	+ 0.28	*	*	*	*	
	Scilly (St. Mary's)	66	55	63.9	56.6	60.0	- 0.7	126	0	4	0.96	+ 0.41	32.6	—	31	—	
	Jersey	70	57	67.6	58.7	62.9	0.0	146	0	5	0.52	- 0.01	39.2	- 16.2	38	- 17	

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

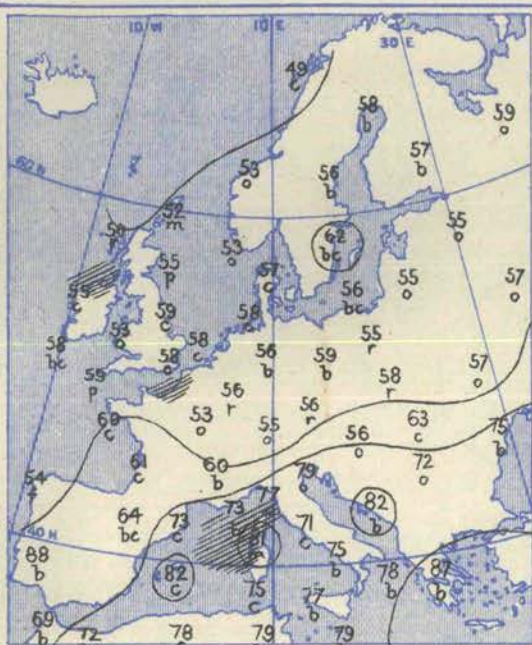
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 3rd August.

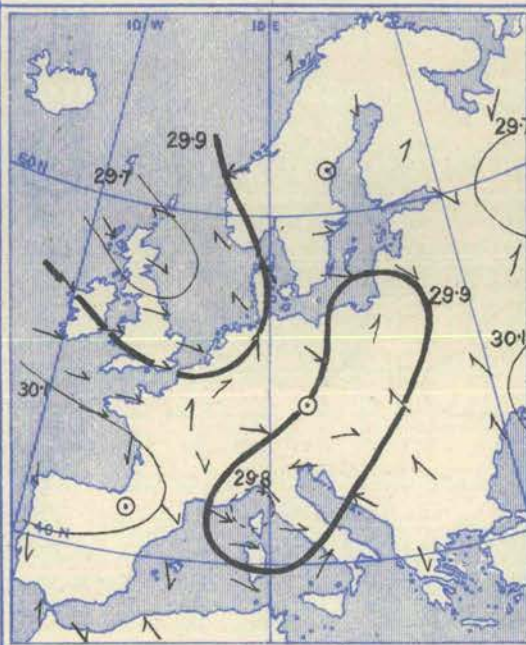
Temperature and Weather.

8 a.m.

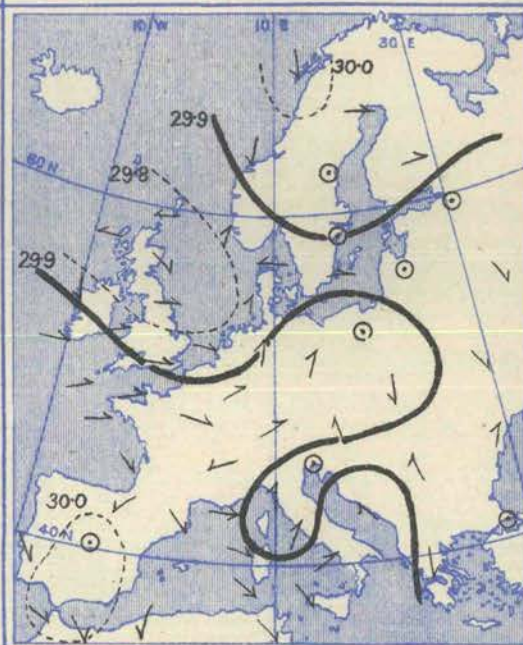


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still cloudy or dull over the greater portion of the northern regions, and fine in the southern. Showery at some of our own stations, and rainy in the Netherlands and at New Fahrwasser; fog prevailing on the north-west coast of Spain. Rain falling later in most parts of the United Kingdom, and in different parts of France, Austria, Germany, Russia, and northern Italy.

Temperature at 8 a.m. highest, 87° in Greece, 82° at Palma and Lésina, 81° at Pesaro and Sanguinaire; above 70° over southern Europe generally, but only 54° at Corunna. Lowest, 40° at Bodö, 52° at Sumburgh Head and Wick, 53° at Paris, Karlstadt, Malin Head, and on the west coast of Norway. Temperature remaining below 70° all day over our Islands and the northern half of Europe generally, but rising to 80° at Lemberg and Hermanstadt, to 90° at Lésina, 97° at Athens, and to 98° at Brindisi.

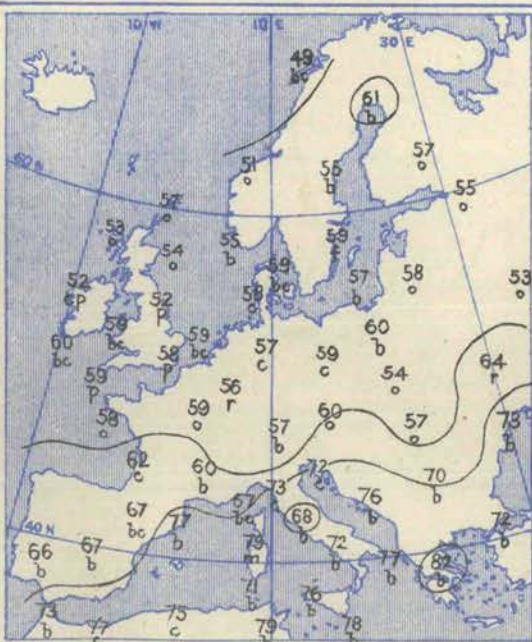
Wind moderate to fresh from the Westward over the greater part of our Islands, but drawing into South on the eastern shores of the North Sea, and into East in the west of Norway and the Shetlands. Light and variable in most other regions, but a complete cyclonic movement of fresh to strong winds around the Gulf of Genoa. Very little change during day.

Barometer at 8 a.m. highest, 30.1 ins. and upwards, over the Bay of Biscay. Lowest, 29.7 ins. and less, over Scotland; below 29.8 ins. in a well-defined depression over Corsica and the Gulf of Genoa, and in another minima near Pesaro; below 29.8 ins. over northern Russia. Scotch depression moving eastwards later, and high pressure area over Bay of Biscay giving way. No other change of importance.

Monday, 4th August.

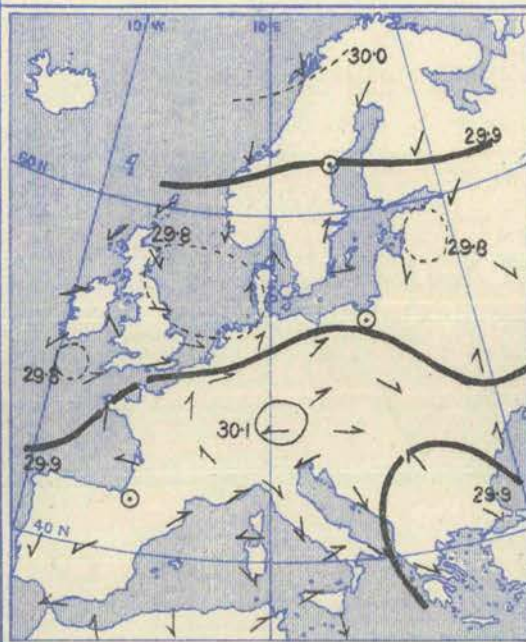
Temperature and Weather.

8 a.m.

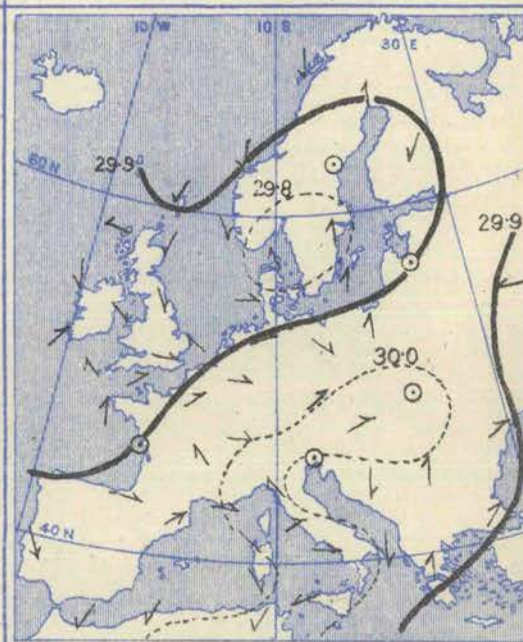


Barometer and Wind.

8 a.m.



6 p.m.



Weather as a whole fine over southern and south-eastern Europe with the Mediterranean; clear in some localities of northern and north-western Europe, cloudy in many others, and rainy in several places. Rain later in Sweden, the southern parts of the British Islands, many parts of France and Germany; a thunderstorm at Cuxhaven.

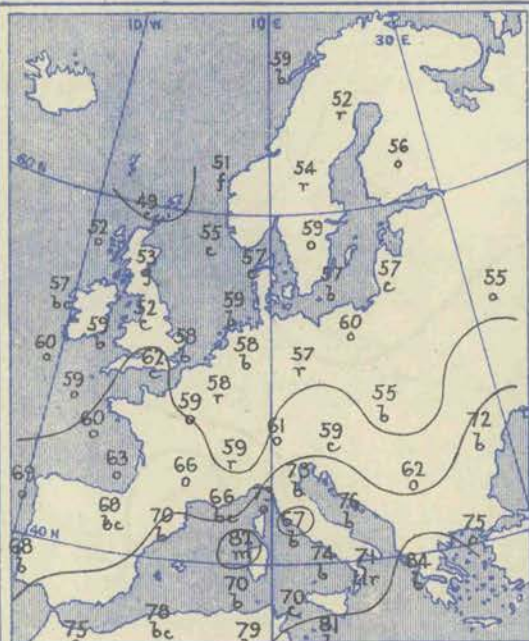
Temperature below the average very generally. Morning readings varying from 49° at Bodö, and below 60° over northern Europe, the British Islands, and north of France, to 60° at Perpignan, 71° at Bilbao, 70° at Hermanstadt, 74° at Nocalieff, 75° at Algiers, 82° at Athens, rising later to between 68° and 69° over the United Kingdom, to 70° at Munich, 75° at Biarritz, 82° at Nice, and more than 100° over central Algeria.

Wind Northerly over Scandinavia, very variable over the British Islands, South-Westerly over the north of France and north Germany, Westerly over central Germany. No definite wind current reported still further to the southward. Very little change later except in the north of France and north Germany, where the South-Westerly wind died down, giving way to calms and variable airs.

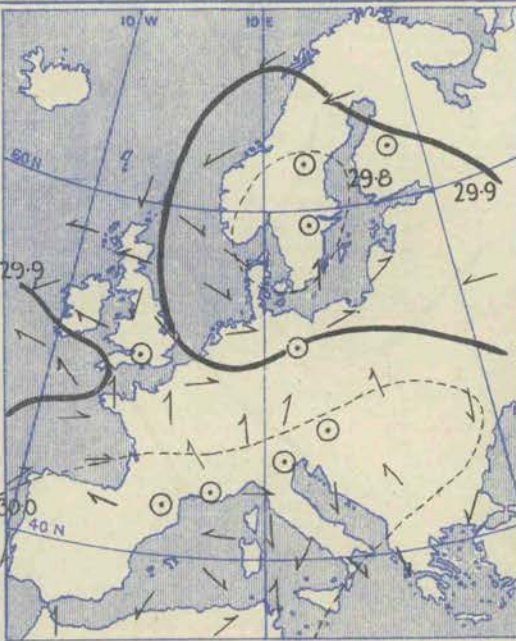
Barometer in morning, highest (1), 30.0 ins. and more over northern Europe, and (2) over the central countries (30.13 ins. at Munich). Lowest, 29.8 ins. and less in three minima—one near Riga, another over the North Sea, and a third near Valencia. Gradients very slight everywhere. The North Sea depression moving eastwards later, and pressure decreasing slightly over central Europe.

Temperature and Weather.

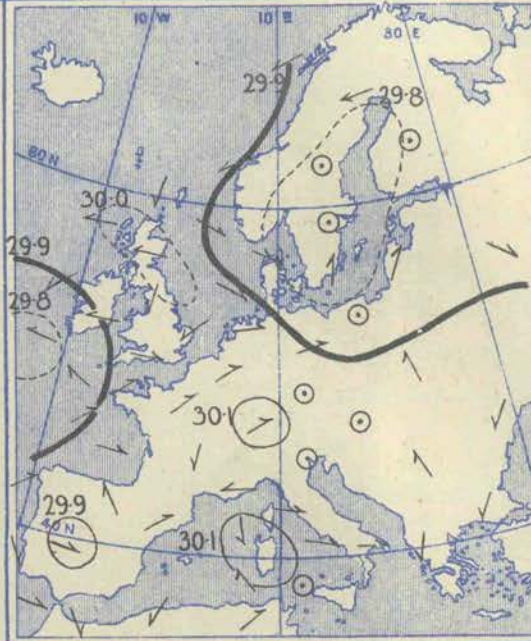
8 a.m.



8 a.m.



6 p.m.



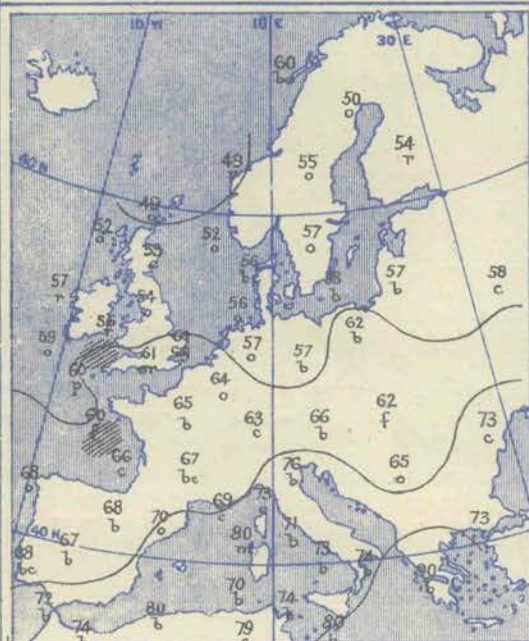
Wind light in force throughout our area, and on the whole variable in direction. Mainly cyclonic, however, over Scandinavia and its neighbourhood, as well as on our own south-west coasts. No general or important change during day, but Easterly current increasing in force at Haparanda, and a feeble cyclonic movement springing up over Spain and Portugal.

Temperature changed but little. Readings at 8 a.m. ranging from 84° at Athens, 82° at Sanguinaire, 51° at Malta, 80° at Barcelona, and considerably above 70° over the Mediterranean and the southern regions as a whole, to less than 60° over the northern half of Europe generally, and to 49° in the Shetlands. Maxima during day ranging between 80° and 90° in most southern localities, and as high as 95° at Madrid and Athens, and 101° at Aumale. Temperature not touching 70° at most of our own stations,

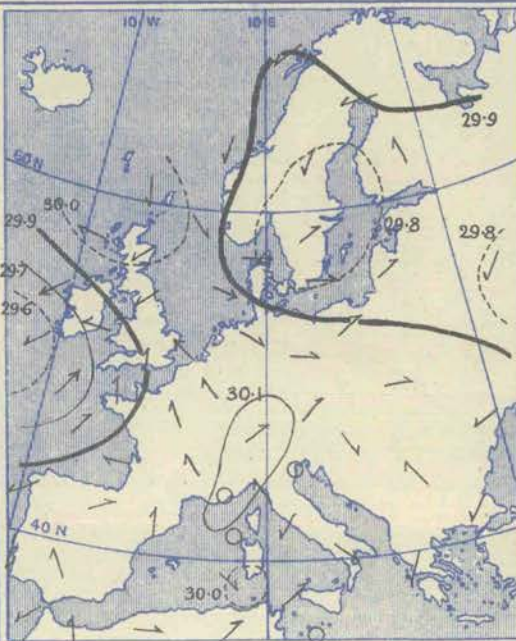
Barometer at 8 a.m. highest, 30.0 ins. and upwards in a large and irregularly shaped area embracing the more southern parts of Europe and Algeria. Lowest, less than 29.8 ins. in a shallow depression over Sweden and the Skager Rack; below 29.9 ins. in another system lying off our south-west coasts; and below 30.0 ins. in a very shallow system over Sardinia. High pressure area extending northwards later, and a cyclonic disturbance forming over central Spain. Sardinian depression dispersing.

Temperature and Weather.

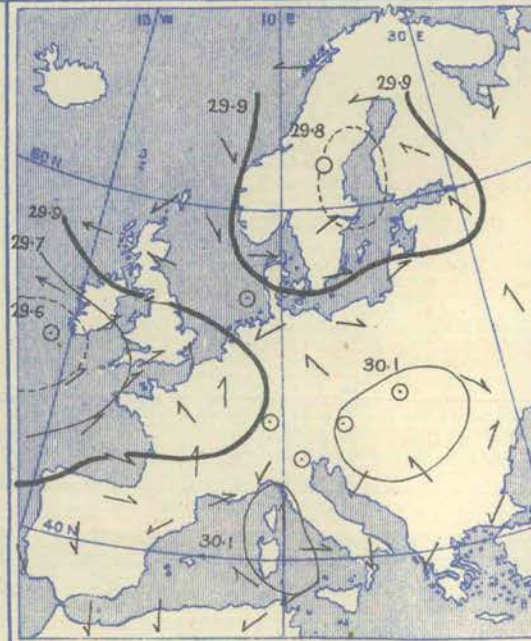
8 a.m.



8 a.m.



6 p.m.

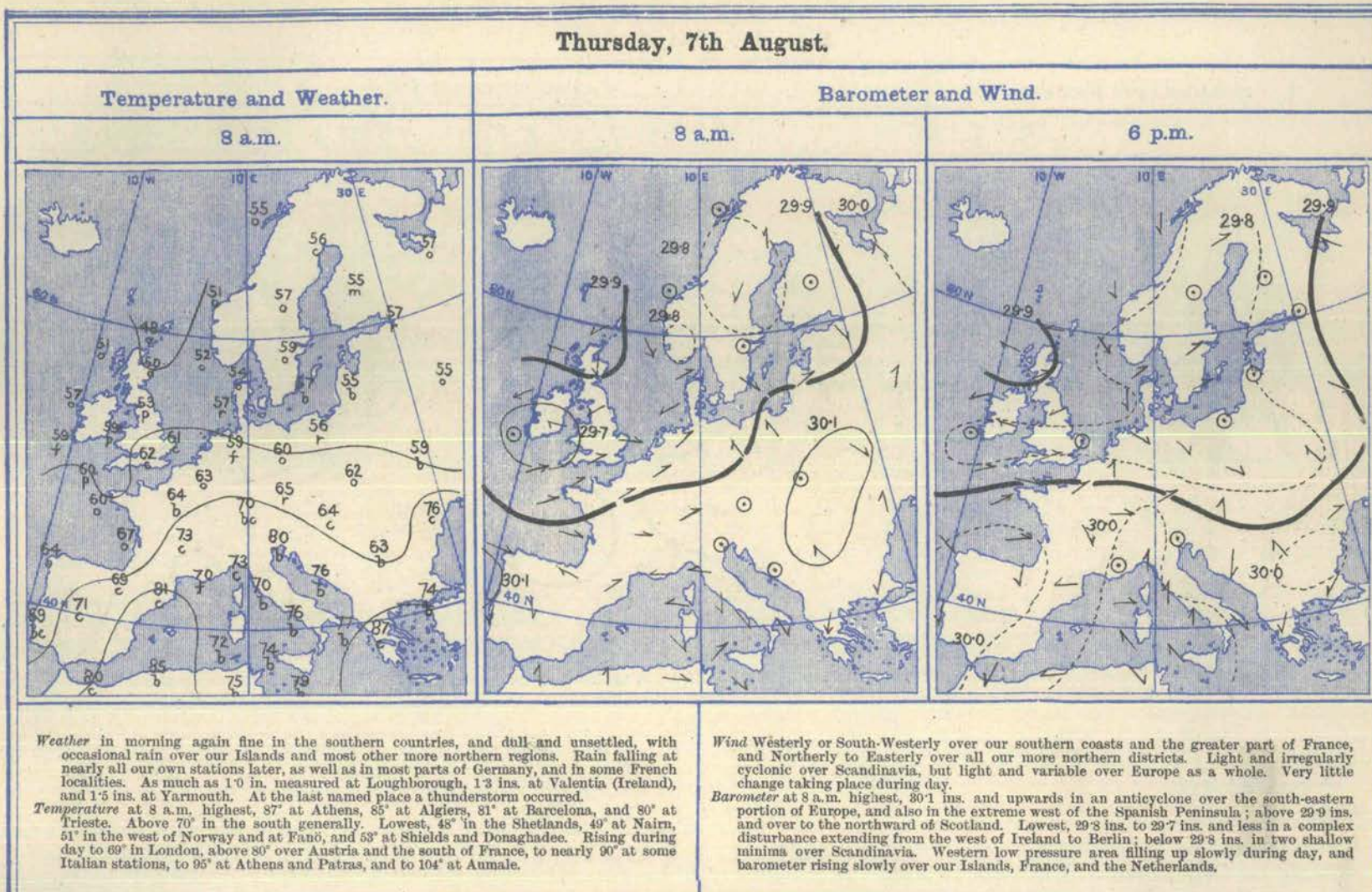


Wind extremely light and variable (mainly anticyclonic over all the countries in southern and south-eastern Europe); cyclonic from South and East over the British Islands, and from North, West, South-West and East over Scandinavia and Lapland. Very little change later, except that wind freshened on our north-west coasts from East.

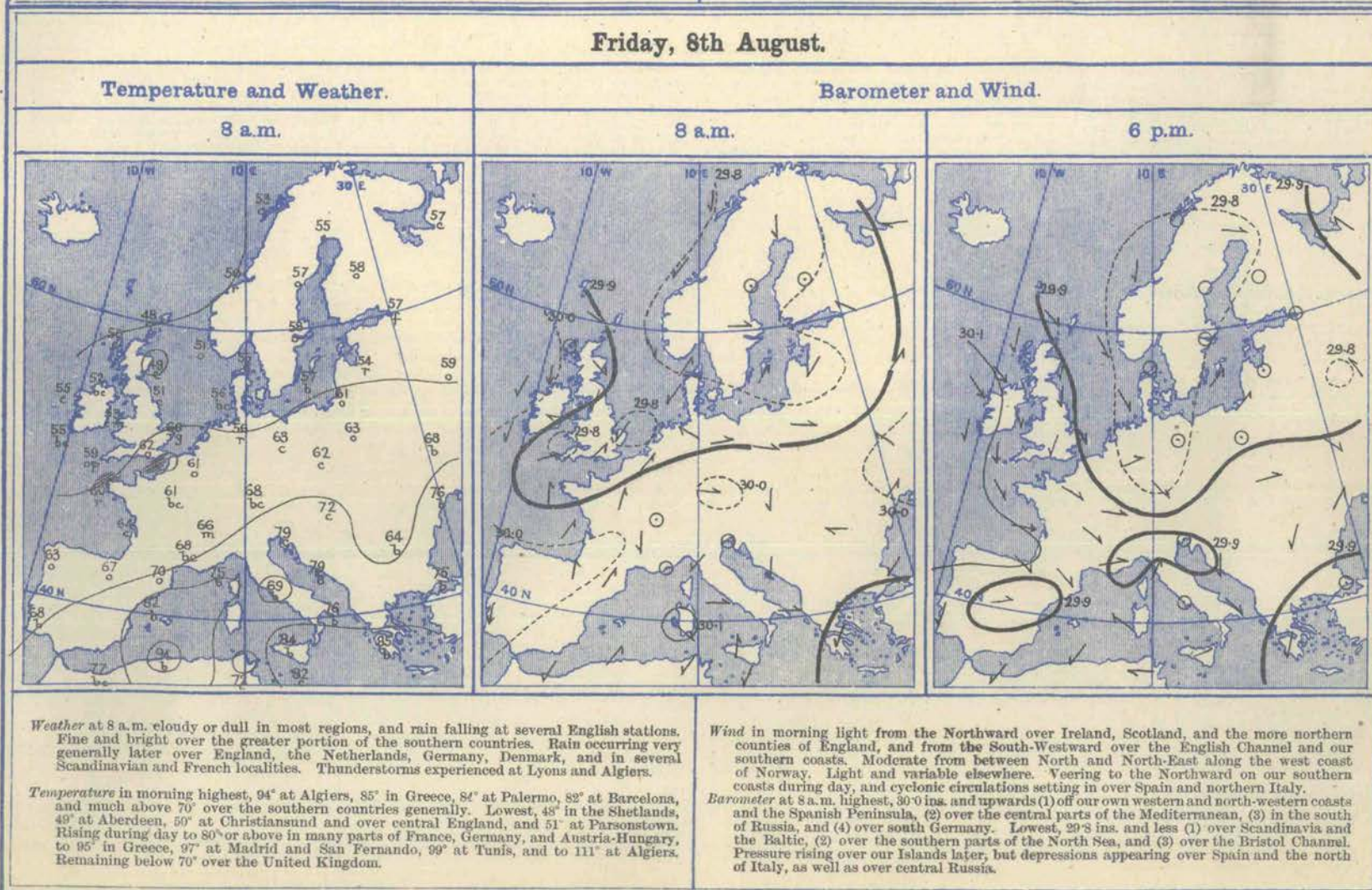
Temperature In morning highest, 90° at Athens, and 80° or more at several of the Mediterranean stations; above 70° in the extreme south of France and north of Italy. Lowest, 49° at Christiansund and Sunburgh Head, and somewhat above 50° at the most northern stations generally. Not touching 70° in any part of our Islands later, but rising to 79° at Frankfurt, 85° at Lyons, 86° at Hermanstadt, 102° at Tunis and at Biskra.

Barometer highest, 30.17 ins. to 30.0 ins. over southern and south-eastern Europe, and exceeding 30.0 ins. over Scotland and the Shetlands. Lowest, 29.8 ins. and less in a depression over Sweden and the Gulf of Bothnia, and below 29.6 ins. in a depression over and off the south of Ireland. Very little change later, excepting the spreading eastwards of the Irish disturbance.

Thursday, 7th August.



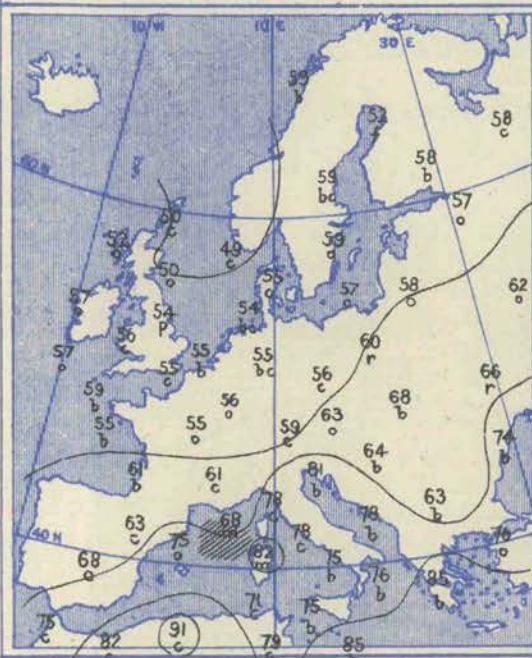
Friday, 8th August.



Saturday, 9th August.

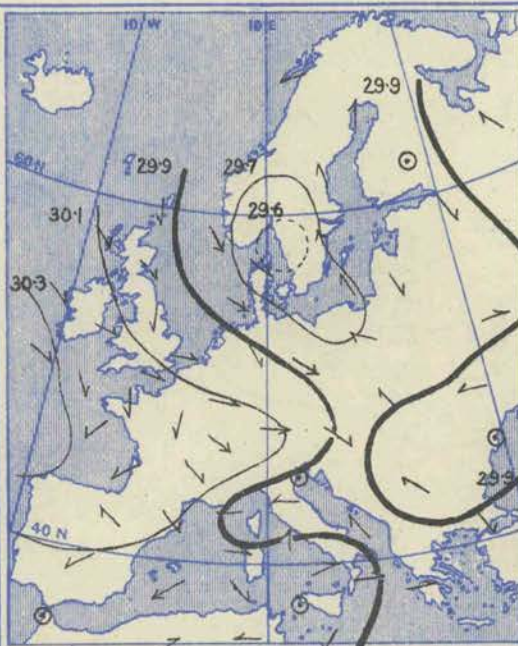
Temperature and Weather.

8 a.m.

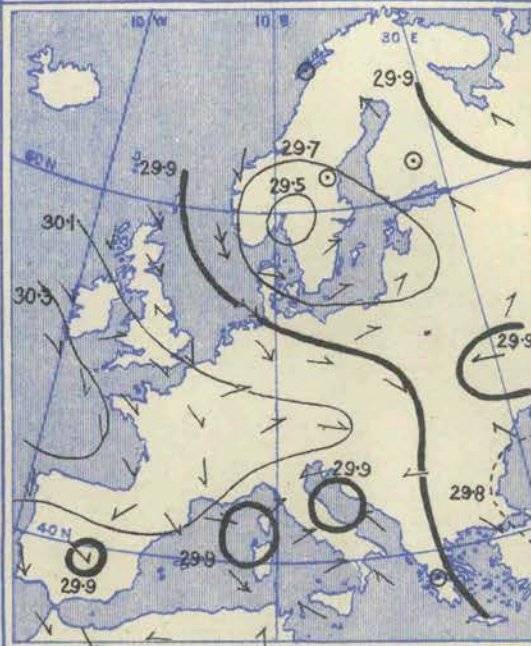


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over northern Europe, with rain at several German and Scandinavian stations; cloudy or dull in most parts of the United Kingdom, with showers at Shields and Malin Head, and fine in most southern regions. Rain experienced later in most parts of our Islands, Scandinavia, Germany, and Austria-Hungary, but weather continuing dry in the south.

Temperature at 8 a.m. highest, 91° at Algiers, 85° in Greece and at Malta, 81° at Trieste, 80° at Palma, and above 75° on most coasts of southern Europe. Lowest, 49° at Skudesnaes, 50° in the north of Scotland, 52° at Oxford, 55° in London, over the north of France, and at Münster and Cuxhaven. Not exceeding 60° at several of our own southern and south-eastern stations during day, but rising to 80° and above over the southern countries generally, to 90° at Cagliari. Madrid maximum reported to be 115°.

Wind in morning showing a complete cyclonic circulation around the south of Sweden, and both the South-Easterly wind at Stockholm and the North-Westerly wind at Fano blowing strongly. North-Westerly and Westerly breezes of little strength prevailing over our Islands, and drawing into North or North-North-East over France and Spain. Light and variable over the Mediterranean and southern Europe generally, but strong from North-East at Palma. Increasing considerably in force during day over Scandinavia and Denmark, and attaining the strength of a gale at Fano and Skudesnaes.

Barometer in morning highest, above 30.3 ins. over the extreme south-west of Ireland and the adjoining portion of the ocean. Lowest, 29.5 ins. and less in a well-defined depression over the south of Sweden; below 29.9 ins. over Greece and the Riviera. Swedish disturbance growing deeper during day, and others forming over different parts of southern Europe.

GENERAL NOTES.

At the beginning of this week the distribution of pressure over Europe was of a most complex character. As a whole the readings were highest over the south-western countries and the Mediterranean and south-eastern Europe, and either over Lapland or a position lying to the northward of the British Islands, while between these two, cyclonic systems of varying intensity were found, either stationary or moving from some westerly point. The weather has consequently been anything but settled, and the large proportion of wind which has been brought over these intermediate countries, the large amount of cloud which has prevailed

during the daytime, and the frequent showers which have fallen, have brought about a great deficiency of temperature (especially when clear skies have occurred at night-time), and unseasonably cold weather has been experienced generally. The depression which approached our own south-west coasts on Wednesday was especially effective in the way described, and, moving eastwards and north-eastwards, had not disappeared from Scandinavia at the close of the week. The light northerly winds in its rear and clear nights brought great cold to England on the morning of Saturday (the King's and Queen's Coronation day).

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 188.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	17.1	- 11.3	15	- 10	WORKSOP	21.2	- 13.0	20	- 13	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	13.4	- 14.6	12	- 13	THURCASTON	17.4	- 20.6	16	- 20	SOUTHPORT	29.7	—	28	—
EDNBRUGH	12.8	- 20.0	12	- 19	MARGATE	24.4	- 18.6	24	- 18	RHYL	36.2	—	34	—
MORPETH	18.1	—	17	—	BROADSTAIRS	26.8	—	26	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	15.3	—	14	—	EASTBOURNE	38.1	- 10.2	37	- 10	ABERDOVEY	36.6†	—	35†	—
YORK	18.4	- 16.8	17	- 16	BRIGHTON	32.3	- 17.7	31	- 18	TENBY	30.9	- 13.9	29	- 14
CROMER	34.1	—	32	—	WORTHING	29.1	—	28	—	NEWQUAY	32.9	- 14.4	32	- 15
LOWESTOFT	—	—	—	—	BOGNOR	31.1†	—	30†	—	TORQUAY	33.0	- 15.3	32	- 14
DUNMOW	20.4	—	19	—	WATERGATE	21.0	—	20	—	GUERNSEY	—†	—	—†	—
HOLLESLEY BAY	28.6	—	27	—	WESTBOURNE	25.6†	- 22.3	25†	- 22					
SHEFFIELD	24.3	—	23	—	VENTNOR HOSPITAL	29.6	- 17.4	29	- 17					

† The values at Bognor Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 33.]
Fourth Series.

WEEK ENDING SATURDAY, AUGUST 16TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 194.)		Temperature of the Air.														
		Observed during the Week.					Accumulated.									
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.				
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	35	57.6	45.5	51.2	4 below	Day-deg. 64	Day-deg. -26	Day-deg. 0	Day-deg. 0	Day-deg. 1092	Day-deg. -226	Day-deg. 600	Day-deg. +91	
	1. SCOTLAND, EAST	77	35	61.6	45.6	53.1	3 below	78	-25	0	0	1248	-343	727	+109	
	2. ENGLAND, N.E.	74	38	61.7	47.6	54.2	4 below	85	-30	0	0	1529	-177	522	+13	
	3. ENGLAND, EAST	77	41	66.0	48.8	56.9	3 below	104	-23	0	0	1833	-158	516	-41	
	4. MIDLAND COUNTIES	77	40	65.7	48.6	56.6	3 below	102	-21	0	0	1790	-198	523	-43	
5. ENGLAND, SOUTH	80	41	65.9	51.2	58.1	3 below	113	-23	0	0	1910	-252	358	-55		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	72	36	63.8	46.7	54.8	2 below	90	-16	0	0	1500	-182	483	+50	
	7. ENGLAND, N.W.	72	36	62.6	50.4	56.2	3 below	99	-19	0	0	1626	-202	421	+6	
	8. ENGLAND, S.W.	77	45	66.1	51.8	58.5	1 below	116	-8	0	0	1882	-146	324	+6	
	9. IRELAND, NORTH	70	40	62.6	51.3	56.6	1 below	102	-7	0	0	1524	-263	339	-28	
	10. IRELAND, SOUTH	70	43	64.9	53.8	59.0	0 (average)	119	+1	0	0	1904	-140	240	-28	
	- CHANNEL ISLANDS	77	52	65.7	55.6	60.4	2 below	129	-10	0	0	2213	-82	99	-24	
DISTRICTS. (See p. 194.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 5	10ths of in. 5 less	160	+19	27.4	-1.0	27	+1	25	+1	799	-37	26	-1
	1. SCOTLAND, EAST	3	2	5 less	132	+12	15.3	-3.0	33	-1	31	-1	834	-116	27	-4
	2. ENGLAND, N.E.	3	2	4 less	116	+6	13.6	-1.1	32	0	31	0	901	-41	29	-1
	3. ENGLAND, EAST	2	1	4 less	112	0	14.4	-0.2	49	+5	48	+5	1125*	-54	35	-2
	4. MIDLAND COUNTIES	3	4	2 less	109	+2	14.8	-1.6	37	-2	36	-2	934	-36	32	-1
5. ENGLAND, SOUTH	5	9	3 more	109	+6	14.7	-1.1	33	-13	32	-13	1131	-80	36	-3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	2	9 less	141	+16	27.9	-0.8	38	+4	36	+4	918	-78	30	-3
	7. ENGLAND, N.W.	4	4	4 less	134	+19	17.3	-1.9	47	+13	45	+12	1056	+47	35	+2
	8. ENGLAND, S.W.	3	3	5 less	117	-2	18.0	-4.8	36	-8	36	-8	1082	-118	36	-4
	9. IRELAND, NORTH	5	4	5 less	159	+21	21.6*	+1.1	16	-13	16	-12	863	-55	28	-2
	10. IRELAND, SOUTH	4	3	6 less	127	0	20.6	-3.2	23	-11	22	-11	982	-53	32	-2
- CHANNEL ISLANDS	2	3	2 less	121	+2	16.2	-1.7	45	-11	44	-11	1235*	-134	42	-5	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was again of an unsettled character generally, but varied considerably in the different districts. Rain was most frequent in the north and north-west of Scotland, over Ireland, and in southern England. The rain over the latter region was heavy at the end of the period, and was accompanied by sharp thunderstorms. Thunder and lightning were also experienced in some scattered localities earlier in the week.

Temperature was just equal to the average in Ireland S., but was again below it elsewhere. The deficit ranged from 1° in England S.W. and Ireland N., to 4° in Scotland N. and England N.E. The highest of the maxima occurred, as a rule, on Saturday, and varied from 80° in England S., and 77° in several other districts, to 70° in Ireland and to 67° in Scotland N. The absolute minima, registered during the earlier days of the period, were very low for the time of year. In Scotland N. and E. the sheltered thermometer fell to 35°, in Scotland W. and England N.W. to 36°, while elsewhere the minima ranged from 38° in England N.E., to 45° in England S.W., and to 52° in the Channel Islands. Thermometers exposed on the grass descended to 31° at Harrogate and at some Scotch stations.

Rainfall exceeded the mean in England S., but was deficient in all other districts. Bright Sunshine was little prevalent over the Kingdom as a whole, but in excess of the mean in England N.W., Scotland W. and N., and England E., and just equal to it in England N.E. The percentage of the possible duration varied from 48° in England E., 45° in England N.W., and 44° in the Channel Islands, to 25° in Scotland N., 22° in Ireland S., and 16° in Ireland N.

Barometer and Wind. During the earlier part of the week pressure was highest off our south-west coasts and over the Bay of Biscay, and lowest in a disturbance over Scandinavia, while small secondary systems moved south-eastwards over our Islands. The winds were consequently mainly North-Westerly. This distribution continued until Wednesday, when the high pressure spread eastwards over France, and a ridge of relatively high readings was gradually formed over our Islands. With this change the wind shifted to the Southward in the west and became rather variable in the east. By Saturday, however, a depression was advancing towards our south-west coasts, the general distribution was again changing and the wind backing to the Eastward.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	55	43	52.3	44.9	48.4	- 4.6	45	0	5	0.57	- 0.14	*	*	*
	Stornoway	63	43	59.0	46.9	52.6	- 1.7	74	0	4	0.46	- 0.36	34.7	+ 4.9	32 + 4
	Wick	60	37	55.7	44.1	49.6	- 5.1	53	0	4	0.20	- 0.38	*	*	*
	Lairg	—	—	—	—	—	—	—	—	—	—	—	*	*	*
	Glencarron	63	41	58.4	44.0	50.8	- 3.9	62	0	3	0.99	- 0.51	*	*	*
	Fort Augustus	67	35	59.2	43.9	51.1	- 5.5	64	0	3	0.28	- 0.45	19.6	- 0.8	19 - 1
1. SCOTLAND, E.	Fort William	64	43	60.9	48.9	54.5	- 2.5	88	0	4	0.23	- 1.07	31.4	+ 8.4	30 + 8
	Nairn	67	40	59.3	45.0	51.7	- 4.7	68	0	1	0.33	- 0.28	*	*	*
	Aberdeen	62	44	56.1	46.6	51.1	- 5.3	64	0	3	0.29	- 0.38	33.1	- 1.6	31 - 2
	Braemar	66	40	59.2	44.3	51.3	- 2.2	65	0	4	0.30	- 0.54	*	*	*
	Ochertyre	77	38	66.9	46.0	55.8	- 1.2	97	0	3	0.17	- 0.67	*	*	*
	Leith	74	43	64.7	48.6	56.2	- 2.0	99	0	2	0.15	- 0.44	*	*	*
2. ENGLAND, N.E.	Marchmont	70	35	63.3	42.9	52.5	- 3.5	74	0	4	0.15	- 0.63	29.0	- 6.1	28 - 6
	Alnwick Castle	70	44	60.8	47.9	54.0	- 2.8	84	0	4	0.29	- 0.41	*	*	*
	Durham	67	38	60.8	45.5	52.7	- 5.4	75	0	3	0.15	- 0.49	25.4	- 8.1	24 - 8
	Shields	69	39	59.3	47.4	53.0	- 4.5	77	0	3	0.12	- 0.52	*	*	*
	Scarborough	68	44	61.4	46.5	53.5	- 4.8	81	0	4	0.38	- 0.24	39.5	—	38 —
	Spurn Head	70	46	62.1	51.3	56.4	- 2.9	101	0	1	0.08	- 0.34	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	74	41	65.6	46.8	55.6	- 3.8	95	0	3	0.24	- 0.31	*	*	*
	Hillington	75	42	66.1	46.6	55.8	- 4.1	97	0	2	0.23	- 0.39	51.0	+ 10.4	50 + 10
	Yarmouth	69	46	62.4	49.7	55.7	- 4.5	96	0	2	0.09	- 0.41	*	*	*
	Geldeston	77	41	67.1	46.7	56.3	- 3.8	100	0	2	0.13	- 0.32	53.3	+ 9.8	52 + 10
	Cambridge	76	44	69.2	50.0	59.0	- 2.0	119	0	2	0.05	- 0.48	44.7	+ 2.2	44 + 2
	Felixstowe	69	45	64.7	50.7	57.3	- 3.1	107	0	2	0.09	—	49.2†	—	48† —
4. MIDLAND COUNTIES	Rothamsted	74	42	66.4	49.0	57.2	- 2.5	106	0	4	0.18	- 0.38	42.1	- 1.1	41 - 1
	Harrogate	68	40	62.1	46.6	53.9	- 3.7	83	0	2	0.14	- 0.51	39.8	—	38 —
	Bawtry (Hesley Hall)	71	40	64.7	44.9	54.2	- 5.2	85	0	2	0.27	- 0.26	*	*	*
	Loughborough	73	42	66.3	49.1	57.2	- 3.4	106	0	2	0.28	- 0.27	*	*	*
	Colly Weston (Stamford)	77	42	67.7	49.1	57.8	- 3.0	111	0	1	0.03	- 0.52	*	*	*
	Cheadle	70	41	62.6	48.5	55.1	- 2.3	92	0	3	0.22	- 0.56	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	75	43	65.5	50.2	57.4	- 1.7	108	0	4	1.00	+ 0.38	33.0	—	32 —
	Churchstoke	72	41	66.0	47.9	56.4	- 1.5	101	0	5	0.92	+ 0.33	37.8	- 0.7	37 - 1
	Hereford	73	42	67.5	50.2	58.3	- 1.7	114	0	5	0.63	+ 0.09	*	*	*
	Cirencester	76	40	66.6	48.9	57.2	- 1.4	106	0	5	0.61	- 0.08	31.0	- 10.6	30 - 11
	Oxford	77	46	67.7	51.0	58.9	- 1.8	118	0	5	0.11	- 0.42	35.1	- 6.9	34 - 7
	London	80	44	68.0	50.6	58.8	- 3.2	118	0	4	0.26	- 0.25	25.8†	- 13.4†	25† - 13†
6. SCOTLAND, W.	Swarraton (Alresford)	77	41	66.2	48.8	57.0	- 1.9	105	0	5	0.90	+ 0.27	*	*	*
	Dungeness	69	42	65.0	48.9	56.5	- 5.2	102	0	4	0.34	- 0.07	35.9	—	35 —
	Hastings (St. Leonards)	72	42	64.5	51.4	57.6	- 3.7	109	0	5	0.80	+ 0.26	35.2	- 13.1	35 - 13
	Southampton	76	46	68.9	52.3	60.1	- 1.9	127	0	5	1.02	+ 0.42	33.4	- 13.8	33 - 14
	Portland Bill	66	52	63.7	55.0	59.1	- 1.8	120	0	4	1.24	—	*	*	*
	Shaftesbury	73	44	65.0	51.2	57.7	- 1.9	110	0	6	1.52	+ 0.88	*	*	*
7. ENGLAND, N.W.	Landale (Loch Sunart)	68	45	62.4	47.6	54.6	- 2.5	88	0	3	0.23	- 1.01	*	*	*
	Glasgow	70	44	63.6	48.3	55.5	- 1.3	95	0	0	0.00	- 0.89	38.2	+ 8.9	36 + 9
	Cally	72	36	65.3	44.3	54.2	- 2.5	85	0	1	0.24	- 0.79	*	*	*
	Douglas (Isle of Man)	—	—	—	—	—	—	—	0	—	—	—	—	—	—
	Newton Reigny	72	36	65.0	45.4	54.6	- 2.0	88	0	3	0.05	—	42.5	—	41 —
	Stonyhurst	68	39	62.8	49.9	56.0	- 2.1	98	0	2	0.07	- 1.08	42.2	+ 8.3	41 + 8
8. ENGLAND, S.W.	Blackpool	66	48	61.6	51.7	56.4	- 2.9	101	0	5	0.29	- 0.48	53.1	+ 17.6	51 + 17
	Manchester (Prestwich)	70	39	63.2	48.7	55.5	- 3.0	95	0	5	0.24	- 0.60	30.1	—	29 —
	Liverpool Obsy. (Bidston)	66	48	61.1	52.0	56.3	- 3.5	100	0	6	0.30	- 0.35	48.0	—	47 —
	Chester	69	49	62.9	51.4	56.8	- 3.2	104	0	5	0.65	—	*	*	*
	Llandudno	67	50	63.2	51.9	57.2	- 2.9	106	0	5	0.67	+ 0.04	48.9	+ 11.8	48 + 11
	Holyhead	64	50	60.9	52.4	56.4	- 2.8	101	0	4	0.75	+ 0.09	*	*	*
9. IRELAND, N.	Llandoverly	77	45	68.9	48.9	58.3	- 0.9	114	0	5	0.32	- 0.74	*	*	*
	Pembroke	70	49	62.1	53.7	57.7	- 1.7	110	0	2	0.10	- 0.54	34.5	- 9.7	34 - 10
	Clifton	—	—	—	—	—	—	—	—	—	—	—	*	*	*
	Bath	77	45	67.3	50.9	58.6	- 2.4	116	0	4	0.56	- 0.07	29.0	—	28 —
	Arlington (N. Devon)	74	45	65.1	50.6	57.4	- 1.2	108	0	4	0.33	- 0.79	*	*	*
	Cullompton	76	45	69.2	50.4	59.2	- 0.9	120	0	4	0.58	- 0.06	29.9	- 11.7	29 - 12
10. IRELAND, S.	Falmouth	67	51	64.1	54.6	59.1	- 1.1	120	0	3	0.11	- 0.67	46.8	- 1.6	46 - 2
	Plymouth	71	51	66.1	53.7	59.5	- 1.7	123	0	1	0.08	- 0.57	41.0	- 3.7	41 - 4
	Malin Head	69	49	60.7	51.1	55.6	- 2.1	95	0	5	0.27	- 0.46	*	*	*
	Edenfel (Omagh)	70	40	63.3	51.6	57.1	+ 0.6	106	0	3	0.44	- 0.40	*	*	*
	Blacksod Point	68	48	63.0	52.9	57.7	- 0.3	110	0	6	0.33	- 0.77	*	*	*
	Markree Castle	70	42	63.9	50.7	56.9	+ 0.2	104	0	5	0.44	- 0.49	14.2	- 15.3	14 - 15
CHANNEL ISLANDS	Armagh	69	41	64.4	50.9	57.3	- 0.2	107	0	5	0.33	- 0.41	18.2	- 10.3	18 - 10
	Donaghadee	66	46	60.3	50.3	55.0	- 2.4	91	0	3	0.29	- 0.45	*	*	*
	Dublin	68	45	64.3	53.2	58.4	- 1.0	115	0	4	0.40	- 0.28	22.6	- 14.2	22 - 14
	Parsonstown	70	43	66.0	52.0	58.6	+ 0.2	116	0	4	0.29	- 0.56	20.1	- 11.5	20 - 11
	Kilkenny	69	45	66.1	53.0	59.2	+ 0.2	120	0	3	0.22	- 0.55	*	*	*
	Roche's Point	67	51	63.9	54.3	58.8	- 0.8	118	0	4	0.09	- 0.77	*	*	*
CHANNEL ISLANDS	Valencia	68	53	64.1	55.9	59.8	+ 0.6	125	0	6	0.32	- 0.78	26.2	- 8.3	26 - 8
	Killarney	70	51	64.8	54.8	59.5	+ 0.5	123	0	5	0.49	- 0.58	*	*	*
	Foynes	69	49	65.1	53.2	58.8	+ 0.2	118	0	2	0.24	- 0.69	*	*	*
	Scilly (St. Mary's)	67	54	64.7	56.3	60.3	- 0.7	128	0	2	0.11	- 0.44	44.8	—	44 —
	Jersey	77	52	66.7	54.9	60.5	- 2.5	130	0	2	0.50	- 0.04	46.5	- 8.9	46 - 9

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

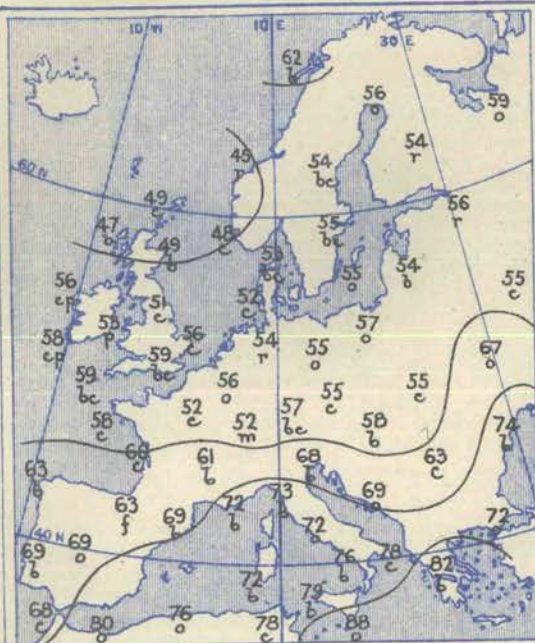
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 10th August.

Temperature and Weather.

8 a.m.

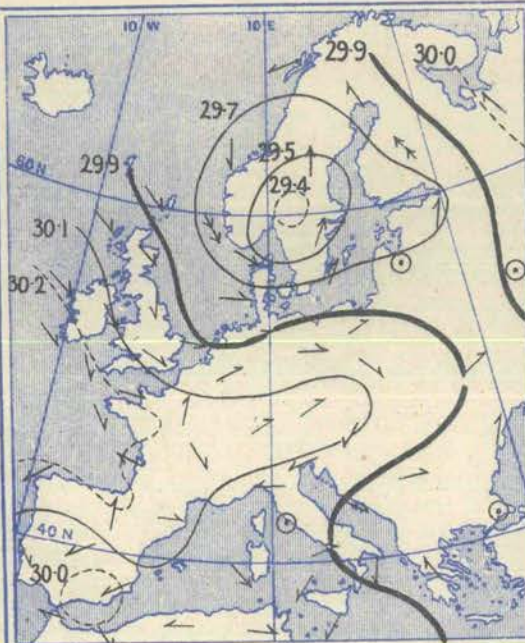


Weather in morning fine over many parts of France and central Europe, cloudy and unsettled over the British Islands and Scandinavia, with rainy, squally winds in several places; cloudy over the northern part of the Mediterranean also. Some rain later over Great Britain, the North Sea, and, locally, parts of northern Europe, Germany, and the east of France.

Temperature in morning highest, 82° at Patras, 78° at Brindisi and Tunis, 80° at Oran, 72° at Nice; 59° at Scilly and in London. Lowest, 47° at Stornoway and Wick, 49° at Sumburgh Head and Aberdeen, 51° at Shields and Malin Head. Below 60° over all the countries of northern and central Europe. Rising later to between 60° and 66° over England, to 70° and more in the south-west of France, 87° at Perpignan, 96° at Madrid, 97° at Malta, and 100° over central Algeria.

Barometer and Wind.

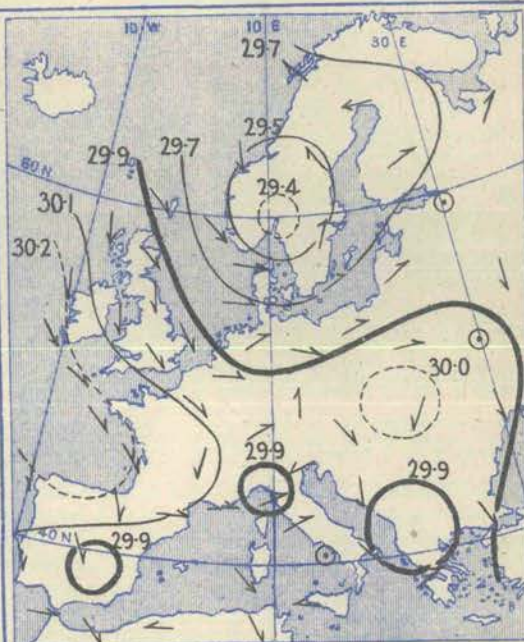
8 a.m.



Wind (1) North-Westerly to Westerly, moderate to fresh over the United Kingdom, Westerly to South-Westerly over central Europe; (2) a cyclonic circulation of stronger winds over Scandinavia and the Baltic circulating round a centre near Carlstad; (3) calm over central Russia. Very little change later.

Barometer highest, 30.2 ins. and more to 30.1 ins. over Ireland, the south-west of England, the Bay of Biscay, and France. Lowest, 29.38 ins. at Karlstad, and below 29.9 ins. over south-eastern Europe. Shallow local depressions forming later over Spain, the Riviera, and Greece. No decided change at the northern stations.

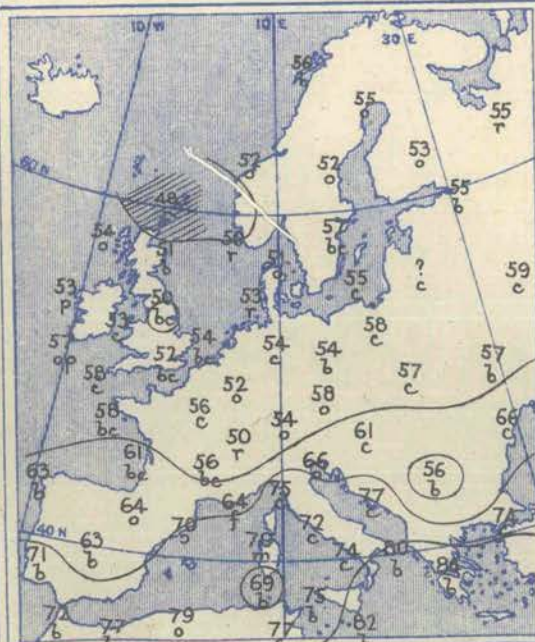
6 p.m.



Monday, 11th August.

Temperature and Weather.

8 a.m.

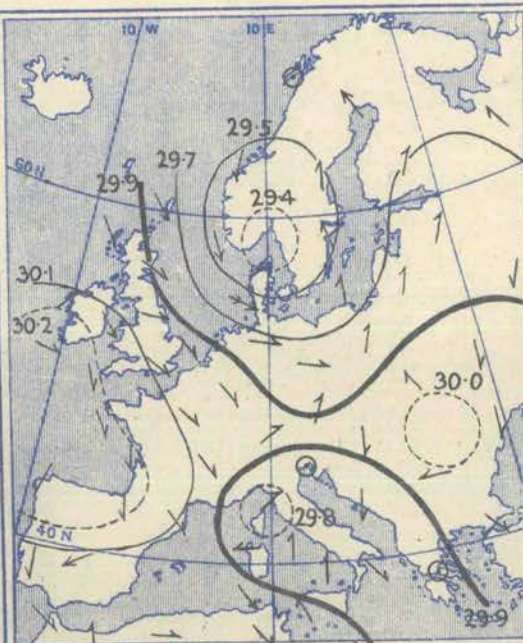


Weather in morning fine at some stations over south-eastern and south-western Europe, but not at all settled in any country. Much cloud, prevalent with rain, in several parts of north-western Europe. Rain later over the western and north-western parts of the British Islands, and in many parts of France, Germany, and Scandinavia—heavy in north Germany and Hungary, slight elsewhere.

Temperature scarcely changing, and consequently still low for the time of year. Morning readings highest, 80° or more over Greece, at Brindisi, Malta, and Laghouat, above 70° over the greater part of the Mediterranean. Lowest, 48° at Sumburgh Head, 49° at Newton Reiguy, and much below 60° at almost all the British, Irish, and Continental stations. Scarcely exceeding 60° at our own stations later (excepting Leith), but touching 70° at Rochefort, 82° at Nice, 95° at Malta and Sfax, and 106° at Biskra.

Barometer and Wind.

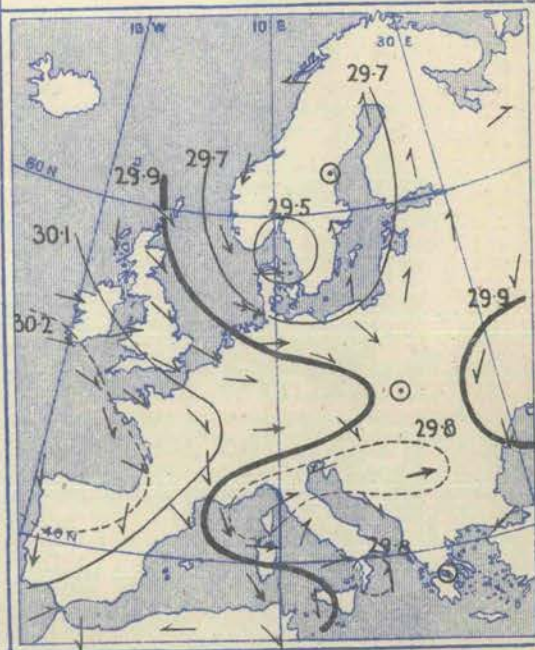
8 a.m.



Wind Northerly to Westerly over the whole of western Europe; light in most places, but blowing a gale at Fanø. A well-defined cyclonic circulation over Scandinavia; very variable winds, mostly light, elsewhere. Hardly any change later, but wind increasing in strength on the north German coast.

Barometer highest, 30.2 ins. and more over the Bay of Biscay, and 30.0 ins. and more over Hungary. Lowest, 29.4 ins. and less in a depression over the Skager Rack, and below 29.9 ins. over the Riviera, Italy, and the Adriatic. Falling a little later over the last-named regions; depression over Scandinavia becoming shallower.

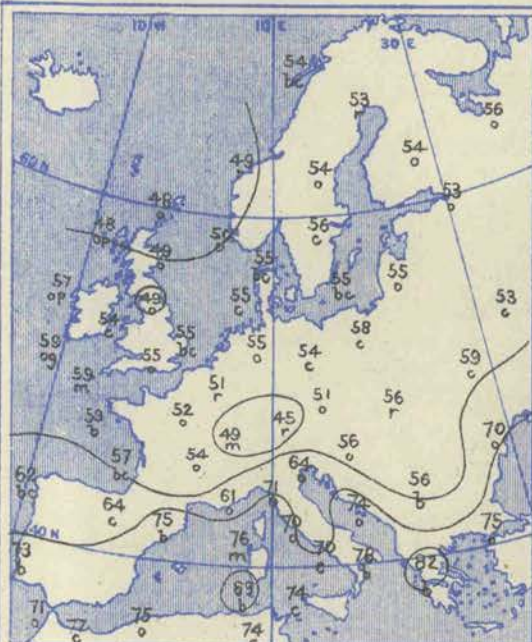
6 p.m.



Tuesday, 12th August.

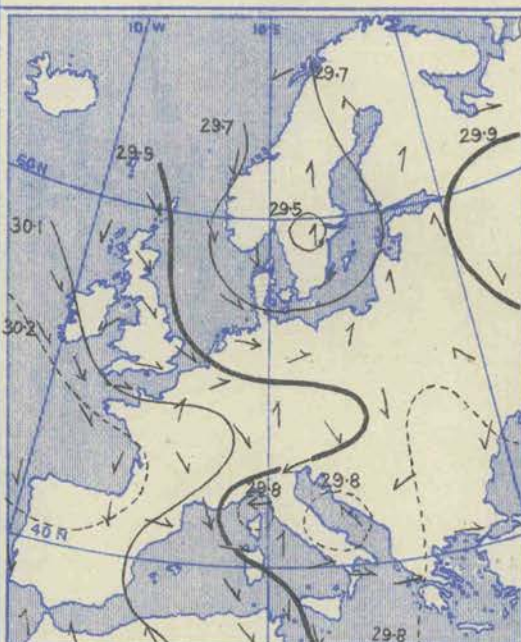
Temperature and Weather.

8 a.m.

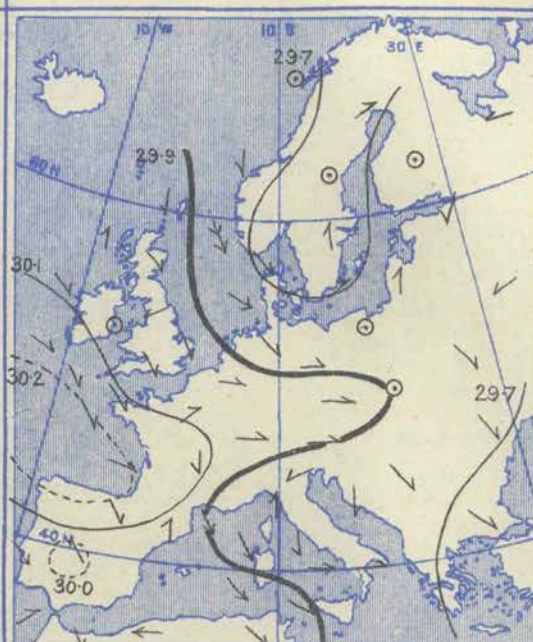


Barometer and Wind.

8 a.m.



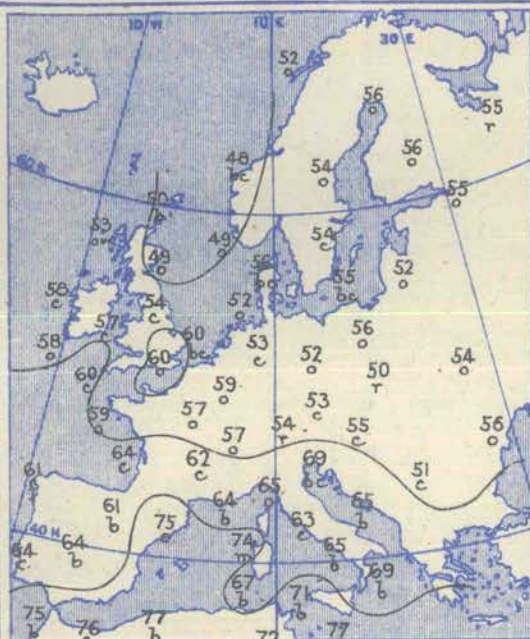
6 p.m.



Thursday, 14th August.

Temperature and Weather.

8 a.m.

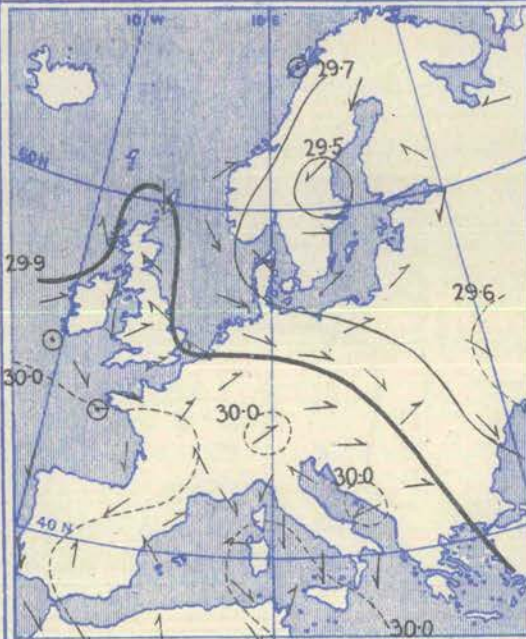


Weather in morning cloudy or dull generally, with rain at Archangel, Warsaw, Odessa, and Munich, but fine in most southern regions. Some rain falling later in a few scattered parts of the United Kingdom and the northern continental countries, and violent thunderstorms, accompanied by more than three inches of rain, experienced at Sanguinaire.

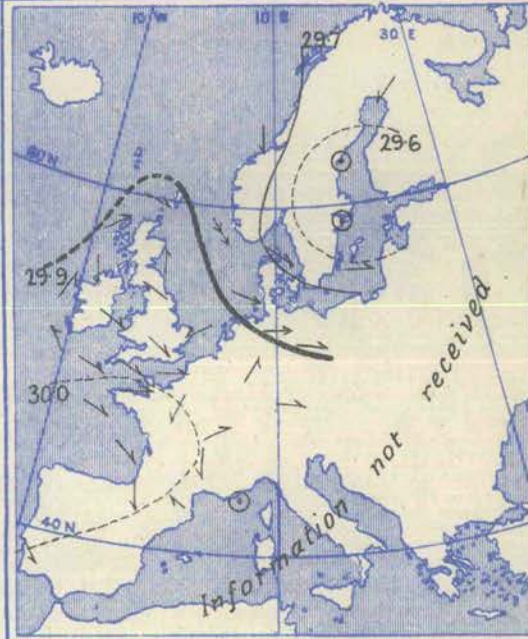
Temperature at 8 a.m. highest, 77° at Malta and Algiers, 75° at San Fernando and Barcelona, 69° at Brindisi and Trieste; about 60° over the south and south-east of England. Lowest, 48° at Christiansund, 49° at Aberdeen, 50° at Warsaw and Lemberg, 51° at Hermanstadt, 52° at Berlin, and 53° at Münster and Prague. Rising subsequently to 70° over central Ireland and in London, 78° at Oxford, 76° at Lyons, 80° at Perpignan, and to 83° at Sanguinaire. Not touching 60° on our north-eastern coasts, and only rising to 63° at Berlin.

Barometer and Wind.

8 a.m.



6 p.m.



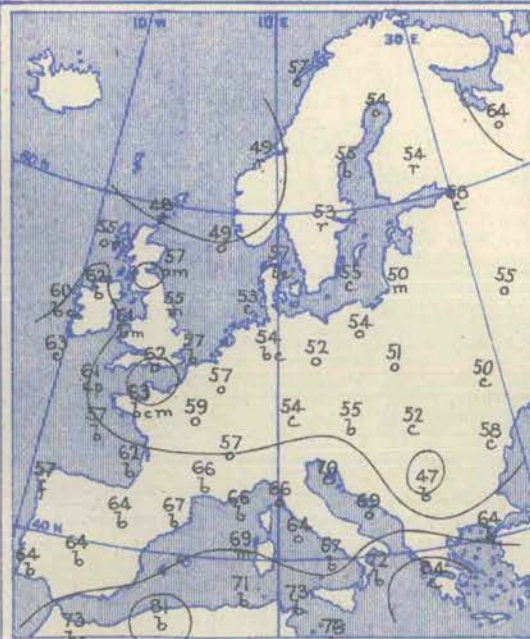
Wind at 8 a.m. still showing a complete cyclonic circulation over Scandinavia and its neighbourhood, the North-Easterly current at Haparanda and the North-Westerly wind at Fano being fresh in force. Light and variable in most other regions, but a feeble cyclonic movement prevailing over the north of England. North-Westerly wind increasing to a gale in the south-west of Norway by evening, but very little change over western Europe as a whole.

Barometer in morning highest, a little above 30.0 ins. in a large area extending from the Atlantic over the Bay of Biscay, France, and Spain, in two small areas over central Europe and Dalmatia, and in another embracing Sicily, Sardinia, and Corsica. Lowest, 29.5 ins. and less in a depression still existing over the Gulf of Bothnia; below 29.9 ins. in a small shallow minimum over Cumberland. Western high-pressure system maintaining its position during day, and northern depression becoming somewhat less deep.

Friday, 15th August.

Temperature and Weather.

8 a.m.

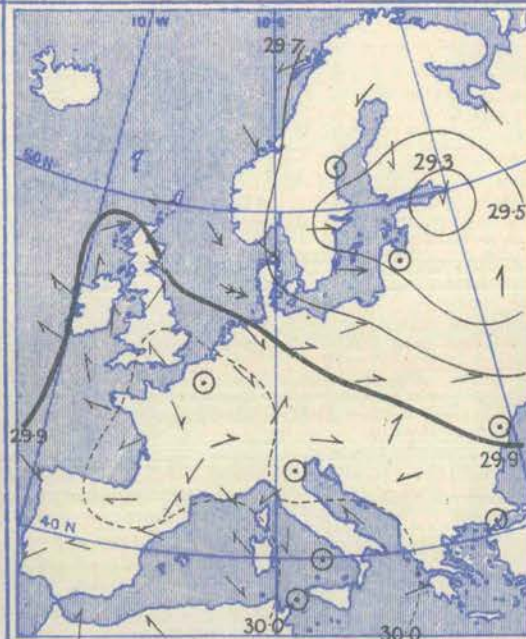


Weather in morning fine and bright over Spain, the east of Ireland, east of England, and over south-eastern Europe; very dull in almost all other regions, especially over central England, rainy at Kuopio. Rain later over Ireland and the northern countries, and showers locally over Germany, Hungary, and Russia. Not at all settled for time of year, though temporarily fine over England.

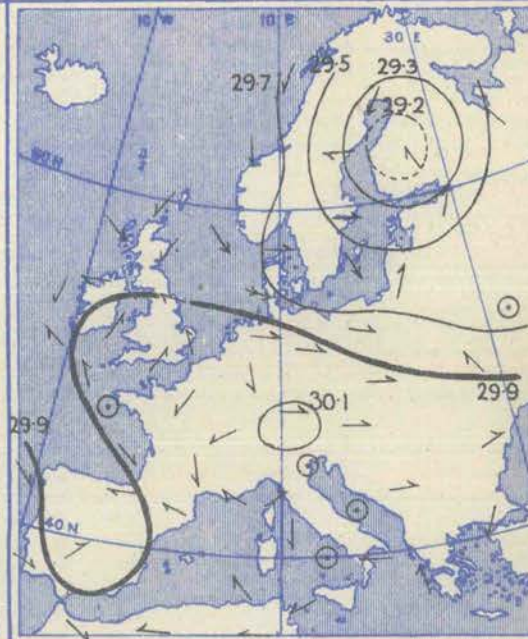
Temperature fallen over northern Europe, risen irregularly elsewhere. Morning readings highest, above 80° at Athens and Algiers only, 76° at Barcelona, and above 70° at a few other stations in the Mediterranean; above 60° over a few parts of France and the west and south of the British Islands, lower elsewhere. Lowest, 48° at St. Petersburg, 49° in the west of Norway, 55° at Stornoway. Rising later to 70° or more at a few of our southern stations and Leith, to 71° at Brussels, 80° at Nice, 86° at Biarritz, 93° at Madrid and Algiers, 97° at Tunis and Biskra, 97° at Aumale.

Barometer and Wind.

8 a.m.



6 p.m.



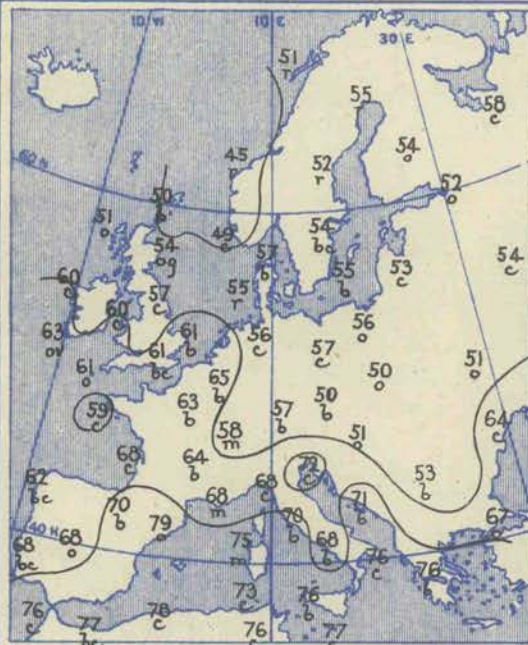
Wind moderate to strong and cyclonic over northern Europe, South-Easterly light to moderate over Ireland, very variable and light over England, France, and Germany, Southerly over central Russia. Very little change later, but the centre of cyclonic disturbance shifting from St. Petersburg to the north of Finland.

Barometer highest, 30.12 ins. at Munich, and exceeding 29.9 ins. over France, the British Islands and south-eastern Europe. Lowest, 29.20 ins. at St. Petersburg and below 29.9 ins. off the west of Ireland. Very little change later, but beginning to give way again in the west of Ireland at night, and depression near St. Petersburg moving northward to Finland. Some local complications appearing over Italy.

Saturday, 16th August.

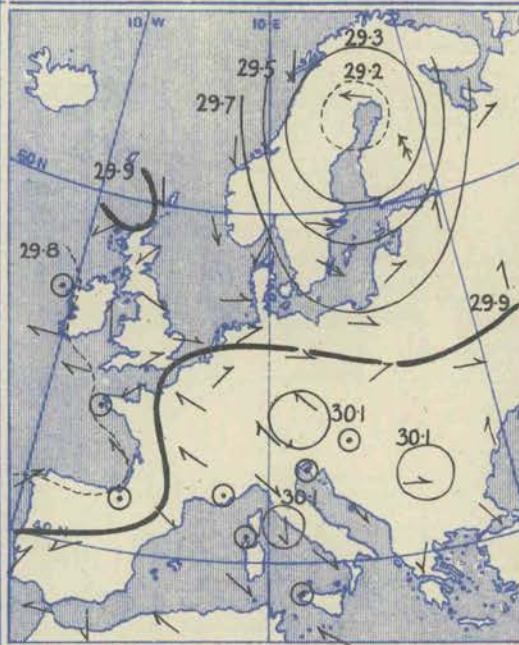
Temperature and Weather.

8 a.m.

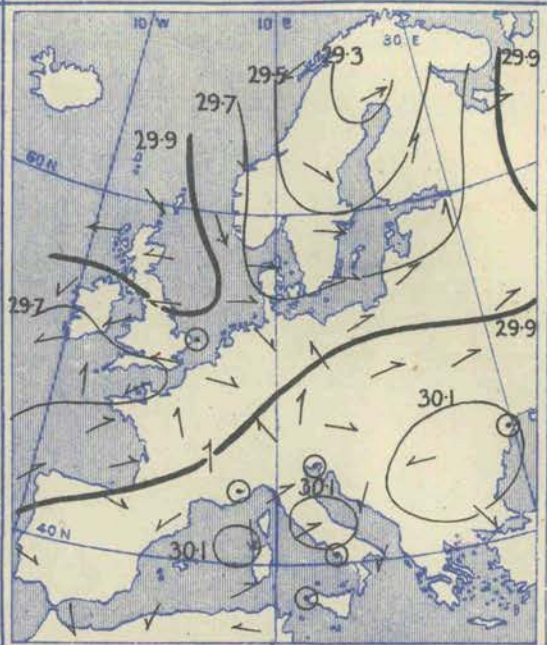


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the more southern parts of England, at some German stations, over France and the southern countries; cloudy or dull elsewhere, with rain in several Scandinavian districts and at Helsingfors. Rain falling in most parts of France, the United Kingdom, and Germany later, and sharp thunderstorms occurring at some of our own southern stations and in various parts of France.

Temperature changed irregularly. Readings at 8 a.m. highest, 82° at Aumale, 77° at Malta, 76° at San Fernando, Patras and Brindisi, and about 70° over southern Europe generally and also at Jersey. Lowest, 45° at Christiansund, 50° in the extreme north of Scotland and at Prague, 51° at Karlstad and Vienna, 52° at St. Petersburg, and 55° in the north of Sweden. Maxima during day as high as 80° in London, between 80° and 90° in most parts of southern Europe, and 95° at Biarritz and Bilbao. Maximum at Aberdeen only 54°.

Wind in morning light and anticyclonic over central Europe and cyclonic in the north. Latter movement very brisk generally, and the Southerly wind over central Finland blowing a gale. Light from the Eastward over the Bay of Biscay and over south-western coasts, and light and variable elsewhere. Wind backing to the Eastward over the United Kingdom later, and decreasing somewhat in force over northern Europe.

Barometer at 8 a.m. highest, 30.0 ins. to 30.1 ins. in an irregularly shaped anticyclone covering the eastern portion of the Mediterranean, Italy, south eastern and central Europe. Lowest, 29.2 ins. and less in a rather deep depression over the north of Sweden, and less than 29.8 ins. in another system over the Bay of Biscay and off our south-western coasts. Disturbance spreading over our south-western coasts and the Channel later, and pressure giving away over western Europe generally. Swedish depression moving north-eastwards.

GENERAL NOTES.

At the commencement of the week barometric pressure was much higher over the Bay of Biscay than elsewhere, and a depression had arrived over the southern parts of Scandinavia from the westward, while secondaries passed over the British Islands from the north-westward. The wind was at first North-Westerly, but subsequently backed temporarily to South-West. Temperature was below the average, especially in the daytime, and showers were frequent. There was very little important change until the end of the week, when the high-pressure area

over the Bay of Biscay moved eastwards and covered France, the North-Westerly wind-current over the United Kingdom died down, and for a time South-Easterly to South-Westerly winds of little strength set in, and temperature over England rose fast. In London a maximum of 80° occurred on Saturday. The change, however, showed no sign of continuing, and, in fact, gave way rapidly to broken weather arriving from the Atlantic.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 194.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESSE - - - -	11.1	- 16.2	10	- 15	WORKSOP - - - -	35.0	+ 1.7	34	+ 2	BOURNEMOUTH - -	-	-	-	-
STRATHPEFFER SPA -	38.3	+ 10.8	36	+ 10	THURCASTON - - -	41.4	+ 4.1	40	+ 4	SOUTHPORT - - -	51.1	-	49	-
EDINBURGH - - - -	36.5	+ 3.3	35	+ 4	MARGATE - - - -	37.7	- 4.8	37	- 5	RHYL - - - -	47.5	-	46.1	-
MORPETH - - - -	28.5	-	27	-	BROADSTAIRS - - -	40.5	-	39.7	-	COLWYN BAY - - -	-	-	-	-
NEWCASTLE-ON-TYNE	23.8	-	23	-	EASTBOURNE - - -	33.1	- 13.9	33	- 14	ABERDOVEY - - -	53.0†	-	56†	-
YORK - - - -	42.0	+ 8.2	40	+ 8	BRIGHTON - - - -	33.2	+ 16.1	33	- 16	TENBY - - - -	33.4	- 10.9	32.7	- 11
OROMER - - - -	52.5	-	51	-	WORTHING - - - -	29.3	-	29	-	NEWQUAY - - - -	34.2	- 12.8	34	- 13
LOWESTOFT - - - -	58.0	-	57	-	BOGNOR - - - -	31.2†	-	31†	-	TORQUAY - - - -	40.0	- 7.8	40	- 8
DUNMOW - - - -	37.2	-	37	-	WATERGATE - - -	25.2	-	25	-	GUERNSEY - - - -	42.4†	- 13.1	42†	- 13
HOLLESLEY BAY - -	54.1	-	53	-	WESTBOURNE - - -	29.0†	- 18.3	28†	- 18					
SHEFFIELD - - - -	41.2	-	40	-	VENTNOR HOSPITAL -	33.0	- 13.8	32	- 14					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAME OF STATIONS.	Temperature. (In Degrees Fahrenheit.)						Rainfall.			Bright Sunshine.					
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
Week ending August 2nd, 1902.	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	50.9	—	48	—
" " " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	40.6	—	53	—
" " " "	Tenby	—	—	—	—	—	—	—	—	—	—	—	39.5	— 5.3	37	— 6
" " " "	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	28.2	—	27	—
" " " "	Guernsey	—	—	—	—	—	—	—	—	—	—	—	49.6	— 6.3	48	— 7

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 34.]
Fourth Series.

WEEK ENDING SATURDAY, AUGUST 23RD, 1902.

[Price 6d.
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post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 200.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	37	58.0	45.9	51.6	3 below	Day-deg. 67	Day-deg. -20	Day-deg. 0	Day-deg. 0	Day-deg. 1159	Day-deg. -246	Day-deg. 660	Day-deg. + 91
	1. SCOTLAND, EAST	73	37	61.1	46.8	53.6	2 below	81	-21	0	0	1329	-364	727	+109
	2. ENGLAND, N.E.	77.3	40	63.8	49.3	56.1	2 below	99	-15	0	0	1628	-192	522	+ 13
	3. ENGLAND, EAST	74	42	67.0	51.8	58.9	1 below	118	- 7	0	0	1961	-165	516	- 41
	4. MIDLAND COUNTIES	72	41	65.9	50.7	57.8	1 below	111	- 9	0	0	1901	-207	523	- 43
5. ENGLAND, SOUTH	74	43	66.4	54.9	60.3	1 below	128	- 4	0	0	2038	-256	358	- 55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	66	39	60.8	49.4	54.8	2 below	90	-12	0	0	1592*	-192	483	+ 50
	7. ENGLAND, N.W.	71	43	64.3	52.1	57.8	1 below	111	- 4	0	0	1737	-206	421	+ 6
	8. ENGLAND, S.W.	72	45	66.5	54.6	60.2	1 above	127	+ 6	0	0	2009	-140	324	+ 6
	9. IRELAND, NORTH	70	40	62.1	51.5	56.5	1 below	102	- 5	0	0	1626	-268	339	- 28
	10. IRELAND, SOUTH	71	45	66.3	54.5	60.0	1 above	126	+11	0	0	2031	-128	240	- 28
	— CHANNEL ISLANDS	71	53	66.9	58.5	62.5	1 above	144	+ 6	0	0	2357	- 76	99	- 24

DISTRICTS. (See p. 200.)		Rainfall.								Bright Sunshine.							
		For the Week.				From December 29th, 1901.				For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
																	10ths of in.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	2 more	166	+21	28.6	- 0.8	25	0	24	0	824	- 37	26	- 1	
	1. SCOTLAND, EAST	6	13	6 more	138	+14	16.6	- 2.5	20	-13	20	-13	854	-129	27	- 4	
	2. ENGLAND, N.E.	6	11	5 more	122	+ 8	14.7	- 0.6	22	- 9	21	- 9	923	- 50	29	- 2	
	3. ENGLAND, EAST	6	11	5 more	118	+ 3	15.5	+ 0.4	38	- 4	38	- 4	1163	- 53	35	- 2	
	4. MIDLAND COUNTIES	5	9	3 more	114	+ 3	15.7	- 1.3	29	- 8	29	- 8	963	- 43	32	- 1	
5. ENGLAND, SOUTH	5	14	8 more	114	+ 7	16.1	- 0.3	35	-10	36	-10	1166	- 90	36	- 3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	23	12 more	148*	+19	30.2	+ 0.4	29	- 4	29	- 4	950*	- 79	30	- 3	
	7. ENGLAND, N.W.	6	10	2 more	140	+21	18.3	- 1.7	34	- 1	34	- 1	1090	+ 46	35	+ 2	
	8. ENGLAND, S.W.	6	11	3 more	123	0	19.1	- 4.5	38	- 5	38	- 5	1120	-122	36	- 4	
	9. IRELAND, NORTH	6	12	3 more	165	+23	22.8	+ 1.5	29	+ 1	29	+ 1	892	- 55	28	- 2	
	10. IRELAND, SOUTH	5	8	1 less	132	+ 1	21.4	- 3.3	42	+ 8	42	+ 8	1024	- 45	33	- 1	
	— CHANNEL ISLANDS	5	8	3 more	126	+ 3	17.0	- 1.4	45	-11	46	-11	1280	-145	42	- 5	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was again very unsettled and rainy generally; it was, however, fair and dry in most parts of England on Thursday and Friday. Thunderstorms were experienced in many parts of Great Britain—principally during the earlier half of the week.

Temperature continued below the mean in most districts, the deficit ranging from 1° to 3°; but in Ireland S., England S.W., and the Channel Islands it was 1° above the normal. The highest of the maxima were recorded about the middle or latter part of the period, and ranged from 74° in England S. and E., to 66° in Scotland W. The lowest of the minima, which occurred, as a general rule, on Friday, varied from 37° in Scotland N. and E., and 39° in Scotland W., to 45° in England S.W. and Ireland S., and to 53° in the Channel Islands. At Harrogate the minimum on the grass on Thursday morning was as low as 31.2°.

Rainfall was more than the mean in all districts excepting Ireland S. The excess was slight in many localities, but large in Scotland W., Scotland E., and England S. In the latter case the large amount was due to a heavy fall (more than an inch on the coasts of Kent and Sussex), which occurred on Monday.

Bright Sunshine slightly exceeded the mean in Ireland and just equalled it in Scotland N., but was deficient elsewhere. The percentage of the possible duration ranged from 46° in the Channel Islands and 42° in Ireland S., to 24° in Scotland N., 21° in England N.E., and 20° in Scotland E.

Barometer and Wind. During the greater part of this week pressure was highest over France, while cyclonic systems passed north-eastwards over our more western and northern districts, and their secondaries moved in a general easterly direction more directly over us. This type of distribution was, however, interrupted on Friday, when a ridge of relatively high pressure extending northwards from France moved eastwards over the United Kingdom. The wind varied a good deal locally, but its general direction was South-Westerly and North-Westerly. It blew a moderate gale from the Southward on our north-west coasts late on Friday, but its force was, as a rule, light or moderate. A waterspout was observed about two miles off Eastbourne at 10.30 a.m. on the 21st.

DISTRICTS.	NAMES OF STATIONS.	Temperature.							Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.							Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.	Averages for the Week.	Averages for the Week.	Averages for the Week.	Averages for the Week.							
				Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Above 42°	Below 42°					
C. SCOTLAND, N.	Sumburgh Head	60	40	53.1	43.4	48.0	- 4.6	42	0	5	0.68	- 0.07	*	*	*
	Stornoway	65	38	59.1	44.0	51.1	- 2.9	64	0	5	0.45	- 0.40	29.3	+ 0.3	28
	Wick	67	37	57.7	45.1	51.0	- 3.4	63	0	4	0.50	- 0.10	*	*	*
	Lairg	70	—	64.0	—	—	—	—	—	4	0.13	- 0.51	*	*	*
	Glencarron	66	39	59.0	46.6	52.4	- 1.1	73	0	7	2.05	+ 0.50	*	*	*
	Fort Augustus	64	38	59.6	47.2	53.0	- 3.2	77	0	5	1.90	+ 0.24	18.7	- 1.0	18
1. SCOTLAND, E.	Fort William	64	41	59.5	49.1	54.0	- 2.7	84	0	7	2.61	+ 1.25	20.8	- 1.8	20
	Nairn	71	40	61.4	46.1	53.3	- 2.8	79	0	5	0.71	+ 0.11	*	*	*
	Aberdeen	69	43	60.9	48.1	54.1	- 1.9	85	0	6	0.96	+ 0.28	22.0	- 11.8	21
	Braemar	65	37	57.6	45.1	51.0	- 2.0	63	0	7	1.31	+ 0.47	*	*	*
	Ochertyre	69	39	62.7	46.4	54.1	- 2.7	85	0	7	2.66	+ 1.82	*	*	*
	Leith	73	47	63.3	50.9	56.7	- 1.3	103	0	7	1.17	+ 0.58	*	*	*
2. ENGLAND, N.E.	Marchmont	68	40	60.7	44.4	52.1	- 3.7	71	0	6	1.06	+ 0.29	16.3	- 17.5	16
	Alnwick Castle	70	43	63.7	48.6	55.7	- 0.7	96	0	6	0.71	+ 0.01	*	*	*
	Durham	69	42	62.4	48.9	55.3	- 2.3	93	0	6	0.94	+ 0.32	23.6	- 8.8	23
	Shields	71	46	63.1	49.3	55.8	- 1.4	97	0	6	1.25	+ 0.63	*	*	*
	Scarborough	70	40	64.3	45.6	54.4	- 3.3	87	0	7	1.96	+ 1.36	19.1	—	19
	Spurn Head	73	49	64.1	52.7	58.1	- 1.1	113	0	4	0.67	+ 0.25	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	69	43	65.4	50.4	57.5	- 1.4	109	0	6	0.75	+ 0.20	*	*	*
	Hillington	72	42	66.8	49.7	57.7	- 2.1	110	0	6	0.25	- 0.37	32.6	- 6.9	33
	Yarmouth	71	48	65.1	53.0	58.7	- 1.5	117	0	6	1.43	+ 0.92	*	*	*
	Geldeston	73	43	67.5	50.9	58.7	- 1.3	117	0	5	1.48	+ 1.04	35.8	- 6.3	36
	Cambridge	74	44	69.5	52.0	60.2	- 0.5	127	0	5	0.68	+ 0.16	41.0	- 0.4	41
	Felixstowe	72	47	66.5	54.1	59.9	- 0.2	125	0	6	1.31	—	45.0†	—	46†
4. MIDLAND COUNTIES	Rothamsted	70	44	66.4	50.8	58.1	- 1.4	113	0	6	1.25	+ 0.69	37.7	- 4.0	38
	Harrogate	68	43	64.4	48.9	56.2	- 1.2	99	0	6	1.24	+ 0.57	32.2	—	32
	Bawtry (Hesley Hall)	72	43	66.0	49.3	57.2	- 1.8	106	0	5	1.23	+ 0.69	*	*	*
	Loughborough	71	41	66.7	50.7	58.2	- 1.9	113	0	6	0.92	+ 0.36	*	*	*
	Colly Weston (Stamford)	72	45	66.9	52.4	59.2	- 1.2	120	0	6	0.41	- 0.13	*	*	*
	Cheadle	67	45	62.8	49.6	55.8	- 1.3	97	0	6	1.55	+ 0.76	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	68	47	64.2	51.9	57.7	- 1.1	110	0	6	0.53	- 0.10	23.8	—	24
	Churchstoke	70	44	66.6	48.4	57.0	- 0.4	105	0	5	0.94	+ 0.34	36.1	- 1.2	36
	Hereford	69	44	67.0	51.0	58.5	- 1.2	116	0	4	0.39	- 0.16	*	*	*
	Cirencester	70	43	66.7	50.7	58.2	+ 0.1	113	0	5	0.91	+ 0.21	33.8	- 6.5	34
	Oxford	71	47	67.6	54.0	60.4	- 0.2	129	0	5	0.67	+ 0.14	33.2	- 8.2	34
	London	74	47	69.0	53.6	60.8	- 1.0	132	0	5	1.39	+ 0.88	28.1‡	- 10.2‡	28‡
6. SCOTLAND, W.	Swarraton (Alresford)	71	43	66.8	52.1	59.0	+ 0.2	119	0	6	1.24	+ 0.60	*	*	*
	Dungeness	67	49	65.6	56.6	60.8	- 0.7	132	0	2	1.57	+ 1.13	34.5	—	35
	Hastings (St. Leonards)	67	50	64.9	55.8	60.1	- 1.3	127	0	4	1.77	+ 1.22	30.1	- 16.7	30
	Southampton	74	49	69.9	55.4	62.2	+ 0.5	141	0	5	1.18	+ 0.58	37.4	- 8.5	38
	Portland Bill	65	56	63.7	57.4	60.4	- 0.4	129	0	4	0.83	—	*	*	*
	Shaftesbury	68	49	65.2	53.4	59.0	- 0.6	119	0	6	1.77	+ 1.12	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	66	42	60.8	48.5	54.3	- 2.4	86	0	7	3.99	+ 2.70	*	*	*
	Glasgow	65	45	61.0	50.3	55.3	- 1.2	93	0	6	1.19	+ 0.29	25.4	- 2.9	25
	Gally	62	39	60.1	47.6	53.5	- 2.8	81	0	6	2.42	+ 1.37	*	*	*
	Douglas (Isle of Man)	66	45	61.3	51.3	56.0	- 0.9	98	0	5	1.41	+ 0.53	32.9	- 4.9	33
	Newton Reigny	68	43	63.4	47.7	55.1	- 1.1	92	0	6	0.87	—	27.7	—	27
	Stonyhurst	66	45	61.9	49.9	55.5	- 2.3	95	0	6	1.92	+ 0.75	22.9	- 9.8	23
8. ENGLAND, S.W.	Blackpool	70	50	63.9	53.4	58.3	- 0.6	114	0	6	1.09	+ 0.31	35.8	+ 1.6	35
	Manchester (Prestwich)	68	44	64.4	49.5	56.5	- 1.5	102	0	5	1.50	+ 0.66	26.0	—	26
	Liverpool Obsy. (Bidston)	69	51	63.9	53.6	58.4	- 1.1	115	0	4	1.04	+ 0.38	35.2	—	35
	Chester	71	48	67.7	53.4	60.1	+ 0.5	127	0	5	0.55	—	*	*	*
	Llandudno	70	51	66.3	54.9	60.3	+ 0.5	123	0	7	0.33	- 0.32	40.2	+ 4.5	40
	Holyhead	65	51	62.6	54.1	58.1	- 0.8	113	0	5	0.59	- 0.09	*	*	*
9. IRELAND, N.	Llandovery	72	45	68.7	53.3	60.5	+ 1.7	130	0	6	0.90	- 0.19	*	*	*
	Pembroke	64	54	62.3	56.7	59.3	+ 0.3	121	0	5	1.25	+ 0.58	40.2	- 2.7	41
	Clifton	—	—	—	—	—	—	—	—	—	—	—	*	*	*
	Bath	72	45	68.3	52.7	60.0	- 0.9	126	0	5	0.63	- 0.01	25.1	—	25
	Arlington (N. Devon)	69	46	65.3	53.6	59.1	+ 0.6	120	0	6	1.72	+ 0.57	*	*	*
	Cullompton	71	45	68.1	53.2	60.2	+ 0.7	127	0	6	1.42	+ 0.78	35.4	- 5.2	36
10. IRELAND, S.	Falmouth	69	53	66.6	56.3	61.1	+ 1.0	134	0	7	0.94	+ 0.12	43.9	- 4.6	45
	Plymouth	69	51	66.1	56.7	61.1	+ 0.3	134	0	5	0.77	+ 0.12	36.2	- 7.5	37
	Malin Head	66	49	60.3	51.4	55.6	- 1.7	95	0	7	0.86	+ 0.12	*	*	*
	Edenfel (Omagh)	65	40	61.6	49.3	55.1	- 0.8	92	0	7	1.45	+ 0.62	*	*	*
	Blacksod Point	63	51	61.7	54.7	58.0	0.0	112	0	5	1.26	+ 0.11	*	*	*
	Markree Castle	70	40	62.6	50.7	56.3	- 0.2	100	0	5	1.00	+ 0.06	26.1	- 2.7	26
CHANNEL ISLANDS	Armagh	69	43	64.6	52.0	57.9	+ 0.8	111	0	5	1.15	+ 0.41	32.7	+ 4.5	32
	Donaghadee	69	49	61.7	51.1	56.1	- 1.1	99	0	6	1.22	+ 0.48	*	*	*
	Dublin	71	51	66.7	55.4	60.7	+ 1.6	131	0	5	0.49	- 0.19	47.2	+ 10.8	47
	Parsonstown	69	48	66.7	52.9	59.4	+ 1.5	122	0	5	0.66	- 0.19	43.9	+ 12.6	44
	Kilkenny	71	45	67.3	52.9	59.7	+ 0.9	124	0	5	1.16	+ 0.38	*	*	*
	Roche's Point	67	50	65.4	54.9	59.8	+ 0.4	125	0	4	0.96	+ 0.08	*	*	*
CHANNEL ISLANDS	Valencia	66	51	64.1	56.3	60.0	+ 1.0	126	0	6	0.96	- 0.14	34.7	+ 0.8	35
	Killarney	70	51	67.8	54.4	60.7	+ 2.2	131	0	5	0.84	- 0.23	*	*	*
	Foynes	69	53	65.8	54.7	59.9	+ 1.7	125	0	3	0.43	- 0.52	*	*	*
	Scilly (St. Mary's)	67	57	66.1	58.9	62.3	+ 1.5	142	0	4	0.39	- 0.13	48.0	—	49
	Jersey	71	53	67.7	58.1	62.6	- 0.1	144	0	5	1.24	+ 0.68	47.4	- 7.3	48

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

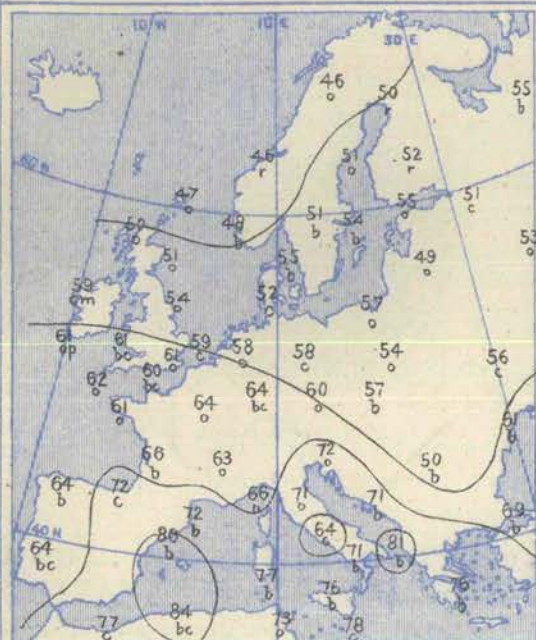
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 17th August.

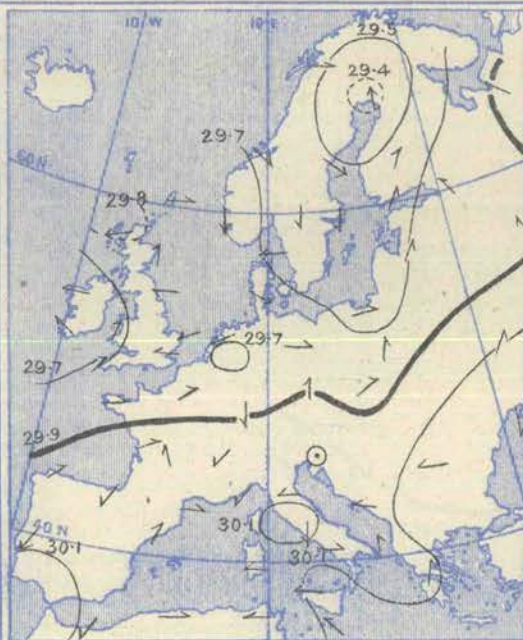
Temperature and Weather.

8 a.m.

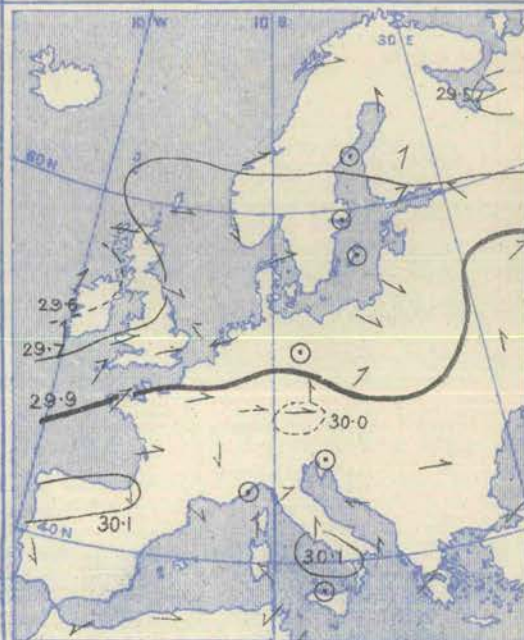


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning generally fine and bright in the more southerly countries, and dull and unsettled elsewhere. Rain falling at Brussels, some English and Irish stations, and also over the north of Scandinavia and at Kuopio. Rain experienced later over the whole of the United Kingdom, the north of France and Germany.

Temperature at 8 a.m. highest, 84° at Algiers, 81° at Brindisi, 80° at Barcelona, and above 70° at most southern stations. Highest in our Islands, 64° at Dungeness. Lowest, 46° or 47° on the north-west coast of Norway and in the Shetlands, 50° at Haparanda, on the north coast of Scotland, and at Hermanstadt; 53° at Moscow, 54° at Warsaw, and 55° at Nicolaieff. Rising during day to 67° in different parts of England and Ireland, to above 70° over south Germany, above 80° over Italy, Spain, and the southern portions of France and Austria, to 102° at Tunis, and to 104° at Algiers and Annale.

Wind in morning light and variable over all the more southern regions, Easterly cyclonic over the United Kingdom, and South-Westerly over the Bay of Biscay. A complete cyclonic circulation shown over northern Europe, the North-Westerly wind at Hernösand being strong, and the Southerly current at Haparanda blowing a gale. Not much change over our Islands as a whole during day, but South-Westerly wind extending to our south and south-west coasts. Wind decreasing greatly in force over Scandinavia, and cyclonic movement dying out.

Barometer in morning ranging from 30.1 ins. and upwards over south-eastern and the extreme south-west of Europe, to below 29.7 ins. in a disturbance over the Netherlands and Ireland, and to below 29.4 ins. in a third system near Haparanda. Irish depression moving slowly northwards during day, that over the Netherlands dispersing, and Swedish system either dispersing or moving quickly eastwards.

Monday, 18th August.

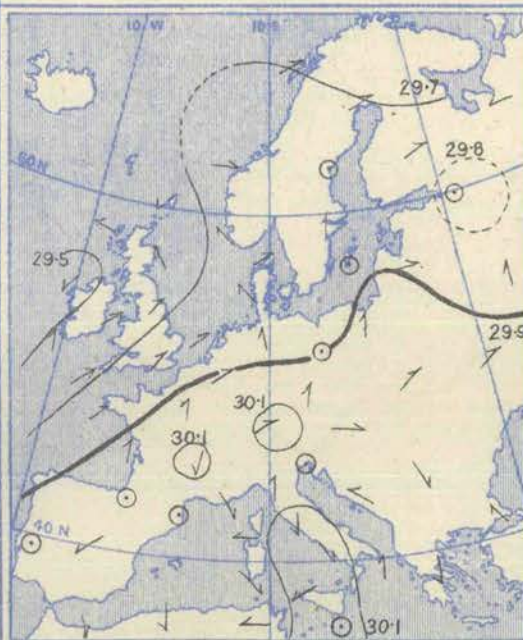
Temperature and Weather.

8 a.m.

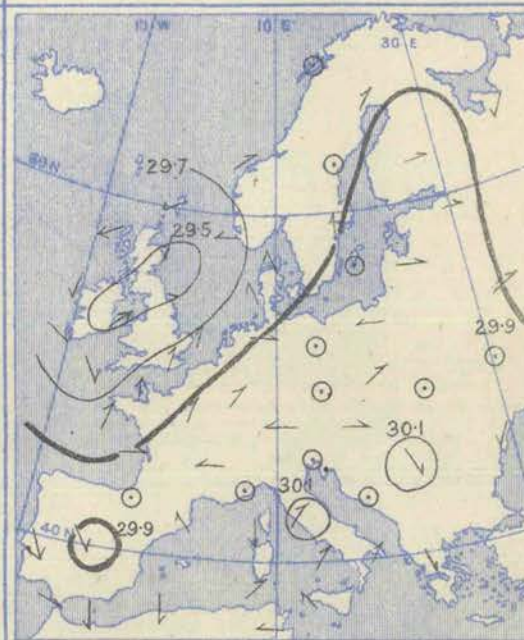


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over southern, south-eastern, and eastern Europe, but cloudy in some places, clear in others, dull, changeable, and, generally speaking, unsettled over the British Islands and neighbouring parts of the country, with rain in many localities. Much rain later over the British Islands, the north of France, Germany, and Austria; some thunder in a few places.

Temperature changed very little; risen a little over France (considerably in the south), fallen a little in Ireland. Highest in morning, 80° at Annale, 80° at Algiers, 81° at Brindisi, and above 70° over the major part of southern Europe. Above 60° all over France and the south of our Islands; as high as 59° even at Archangel. Lowest, 44° at Sumburgh Head, 48° at Wick, 51° at Cuxhaven and Nairn. Touching 71° at Shields later, and 69° at Parsonstown and Loughborough, 75° at Frankfurt, 77° at Paris, 82° at Rochefort, 85° at Perpignan, 90° at Brindisi, 100° at Madrid, and 103° at Tunis.

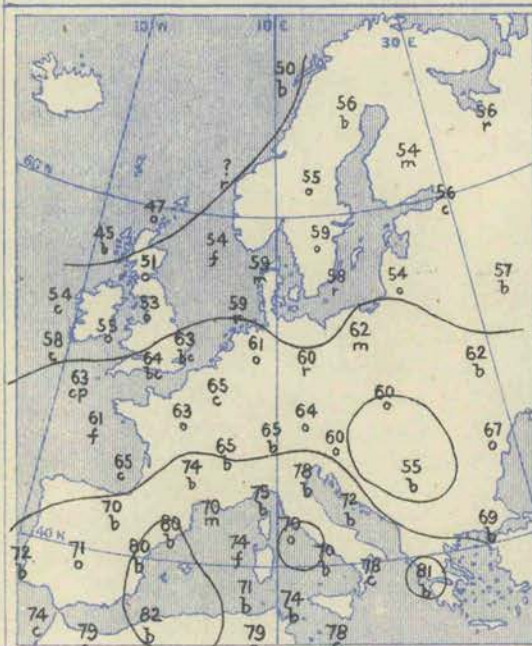
Wind very variable indeed over the greater part of the Continent, South-Westerly, moderate, over Ireland and England, Easterly over Scotland, Northerly at Blacksod Point. The Northerly and North-Easterly winds in Scotland and the north of Ireland spreading later, and South-Westerly winds setting in at those parts of the Continent adjacent to the southern half of our Islands.

Barometer in morning highest (30.14 ins. to 30.00 ins.) over the southern parts of Europe. Lowest, 29.5 ins. and less in a depression over the north-west of Ireland, 29.7 ins. and less over Lapland, 29.8 ins. and less near St. Petersburg. Depression in north-west moving north-eastward later, and barometer beginning to recover in the extreme west.

Tuesday, 19th August.

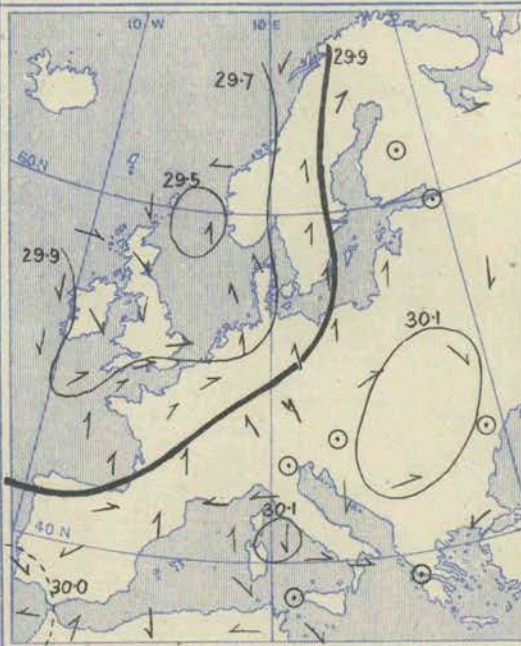
Temperature and Weather.

8 a.m.

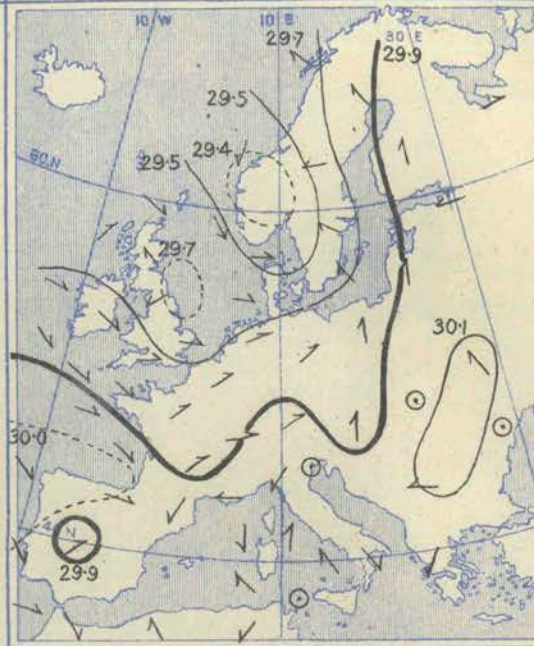


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning again very bright in all the southern countries and unsettled, with much cloud elsewhere. Rainy at Archangel, Christiansund, Wisby, and Berlin, and showery at a few of our own stations. Rain falling later over the northern half of Europe generally, and thunderstorms occurring in London, at Yarmouth, and Lyons.

Temperature at 8 a.m. highest, 86° at Aumale, 81° at Athens, 80° at Barcelona, 78° at Malta, Brindisi, and Trieste, and above 70° over the southern districts generally. Lowest, 45° at Stornoway, 47° at Sumburgh Head, 50° at Bodø, 51° at Moscow, and 54° at Riga. Rising later to above 70° in the south and south-east of England, to between 80° and 90° at many French, German, and Italian stations, to 92° at Lyons and in Greece, 97° at Madrid, to 104° at Algiers, and to 106° at Aumale. Not exceeding 55° at Leith and Shields.

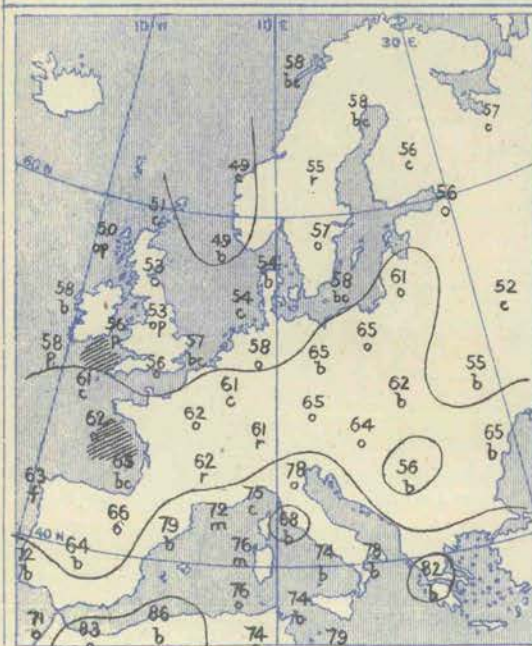
Wind in morning irregularly cyclonic over our Islands and north-western Europe generally, the Westerly wind over the north of France and in the Straits of Dover blowing rather freshly, and the Easterly wind at Christiansund being light. A slight anticyclonic movement prevailing over south-eastern Europe, and light and variable over the Mediterranean. No great or general change later, but wind increasing from the North-North-Westward at Skudesnaes.

Barometer at 8 a.m. ranging from 30.0 ins. to 30.1 ins. in a large area embracing nearly the whole of Russia, and extending south-westwards to the Gulf of Genoa and Tunis, to less than 29.5 ins. in a depression lying between the Shetlands and Norway. Latter system moving eastwards later, and a small disturbance forming near Madrid. No other important change.

Wednesday, 20th August.

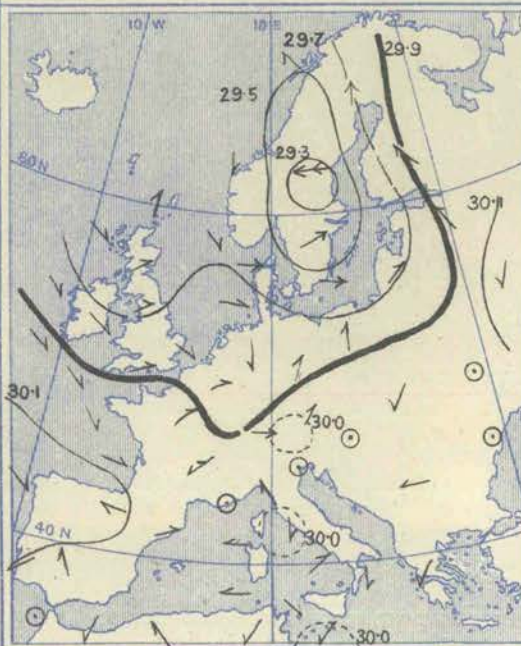
Temperature and Weather.

8 a.m.

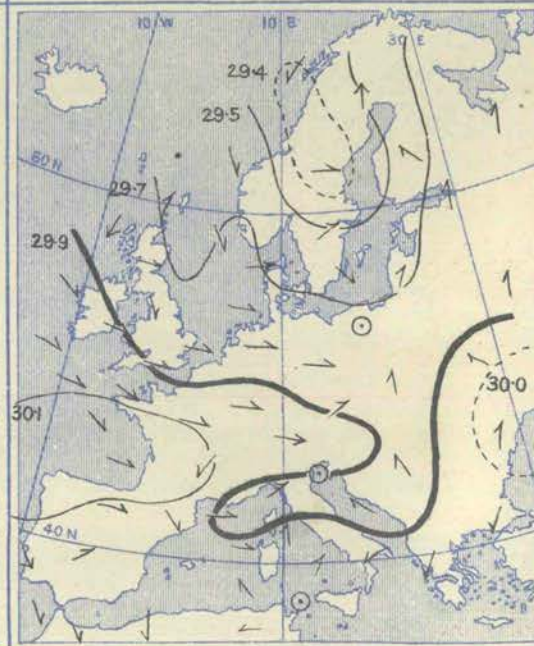


Barometer and Wind.

8 a.m.



6 p.m.



Weather dull and unsettled over the greater part of our Islands and Continental Europe, but fine and bright in the south and south-east. Rain falling at Lyons, Munich, Hernösand, and over the Gulf of Finland, and showers at some of our own stations. Rain later in most parts of the United Kingdom (thunderstorms in the east), over central Europe, and at a few French stations.

Temperature at 8 a.m., ranging from 86° at Algiers, a little above 80° in Greece, and between 70° and 80° in most southern regions, to below 60° over Denmark, Scandinavia, and the greater portions of the United Kingdom and Russia, and to 49° at Newton Reigny and on the west coast of Norway. Highest maxima during day 102° at Sanguinaire, 100° at Tunis, 98° at San Fernando, 95° at Madrid and Trieste, nearly 90° in Italy, and well above 70° over France and central Europe. Not touching 70° in our Islands, and remaining below 60° on our north and north-west coasts.

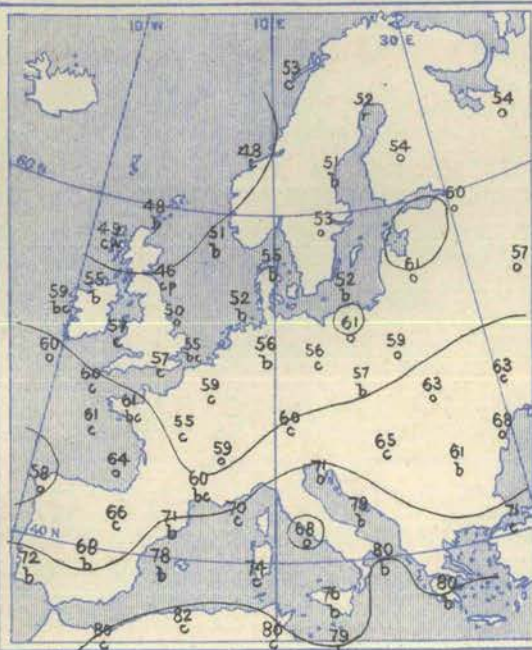
Wind in morning showing a complete cyclonic circulation of fresh or strong winds over Scandinavia and its neighbourhood (an Easterly gale at Hernösand). North-Westerly to South-Westerly over our Islands, and variable over the Mediterranean and the southern countries. North-Westerly current extending over the United Kingdom later, and the force of the cyclonic circulation in Scandinavia decreasing greatly.

Barometer risen over south-western and fallen over northern and eastern Europe. Readings at 8 a.m. highest, 30.1 ins. and upwards, (1) over the southern parts of the Bay of Biscay and the north of Spain, and (2) over central Russia. Lowest, 29.3 ins. and less in a well-defined disturbance over Sweden; below 29.6 ins. in a secondary system over and to the northward of Scotland. Southern high pressure extending northwards later, and that over Russia dispersing. Swedish disturbance moving northwards and becoming less simple in form.

Thursday, 21st August.

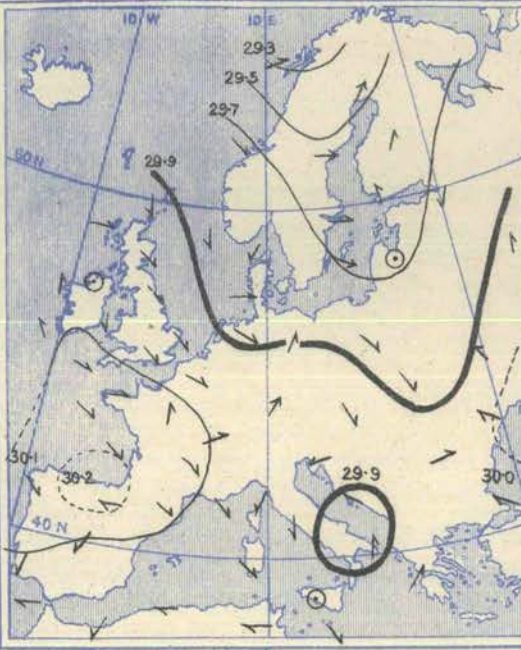
Temperature and Weather.

8 a.m.

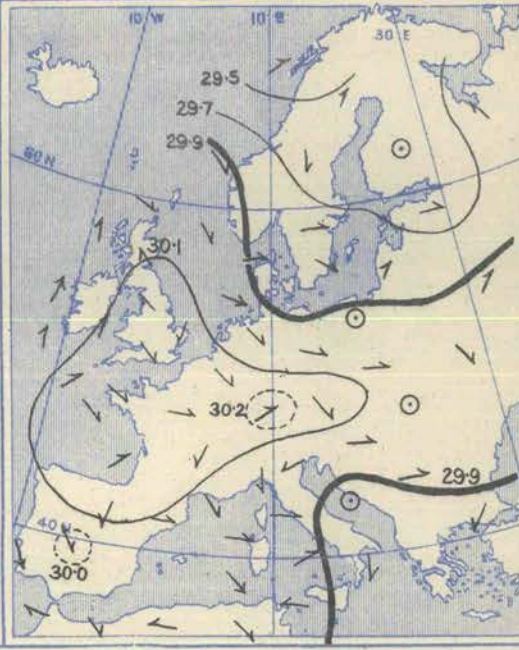


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over various parts of northern and north-western Europe, and still fine and bright in most southern regions. Rain falling at Helsingfors and at one or two Scandinavian stations, and showers at Aberdeen. Rain setting in during night on our north-western coasts, and a considerable amount falling at Bodø and Hermanstadt.

Temperature 83° at San Fernando and continuing a little below or a little above 80° at many stations on the shores of the Mediterranean. Lowest, 46° to 49° in most Scotch localities, between 48° and 53° in most parts of Scandinavia, 54° at Kharkov, and 55° at Paris. Rising during day to 69° in London, about 70° in Germany, 80° or above in most southern regions, to 96° at Brindisi, 100° at Madrid, and to 102° at Aumale. Remaining below 60° on the north-east coasts of our Islands.

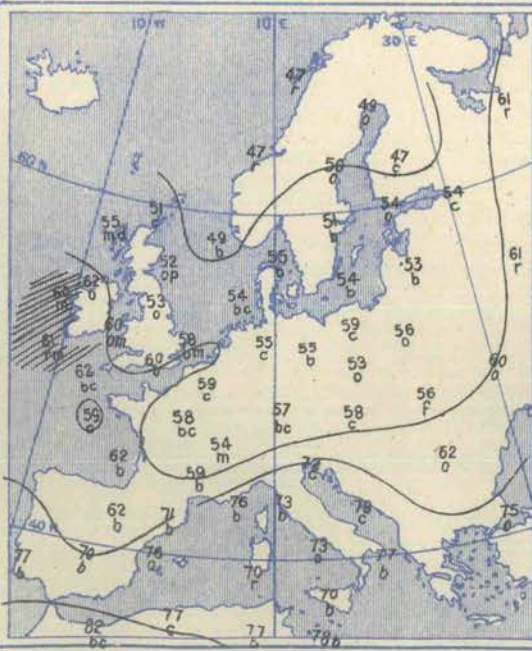
Wind light from the Southward in Ireland, from the Westward in the Hebrides, and from the North-Westward on our east coasts and on the eastern shores of the North Sea; fresh or strong, Westerly in Sweden, and light from South in Finland and Russia. Variable or Easterly in most southern countries. Southerly current spreading to England by evening and increasing slightly in force. Moderate North-Westerly gale springing up at Cagliari.

Barometer risen over our Islands and their neighbourhood, fallen over northern Europe. Readings at 8 a.m. highest, 30.1 ins. to 30.2 ins. in an anticyclone covering the Bay of Biscay, the south-west of the United Kingdom, and the greater portions of France and Spain. Lowest, about 29.3 ins. in Finmark, and less than 29.9 ins. over the southern parts of Italy and the Adriatic. Barometer beginning to fall on our west and north-west coasts later, and a small disturbance forming over central Spain.

Friday, 22nd August.

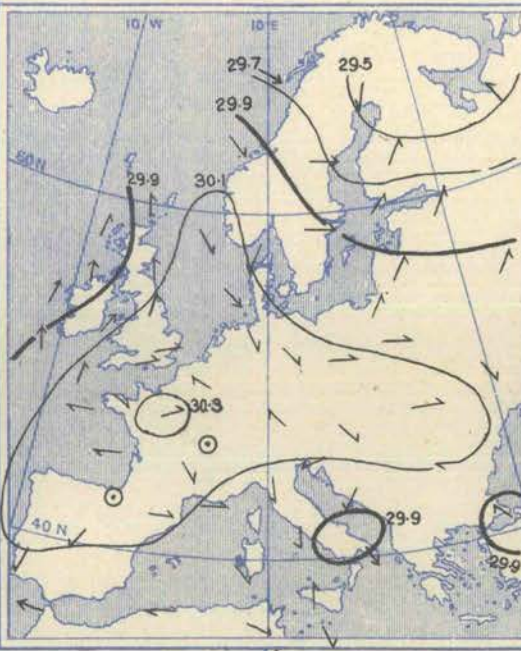
Temperature and Weather.

8 a.m.

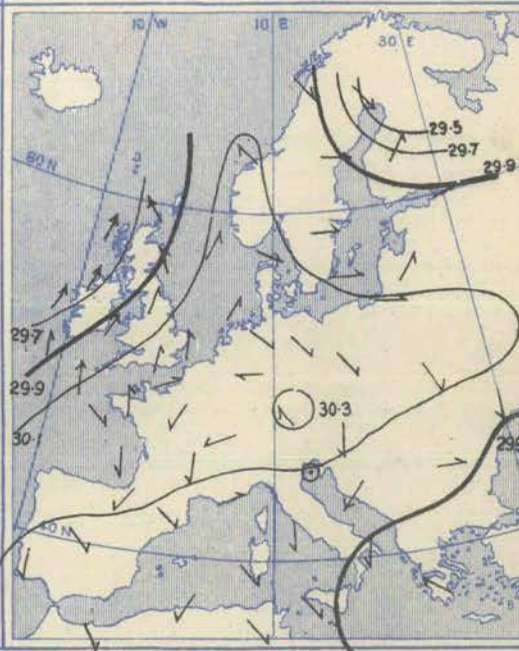


Barometer and Wind.

8 a.m.



6 p.m.



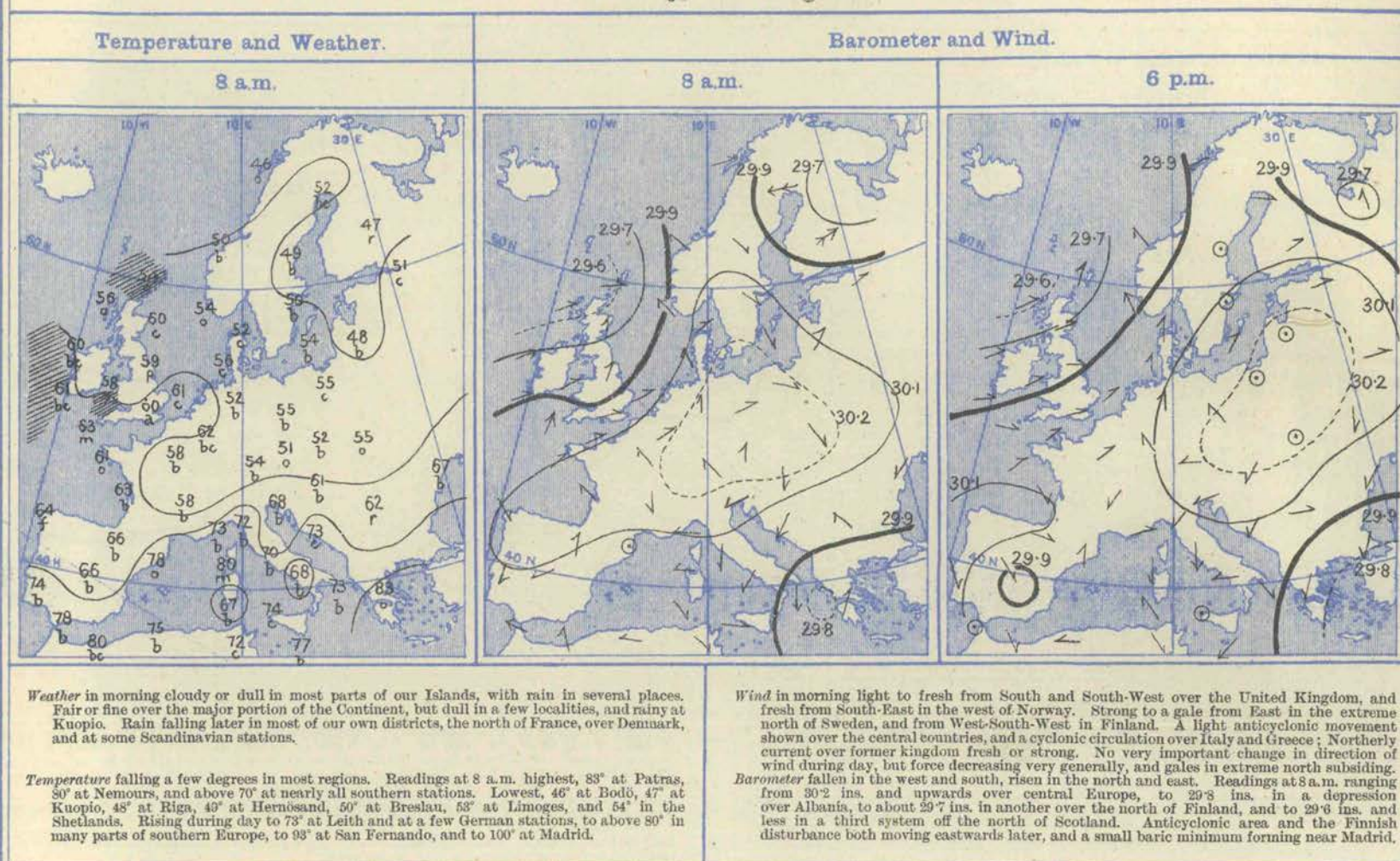
Weather in morning fine over France, our south-eastern countries, the south of Scandinavia and various parts of southern Europe; cloudy or dull elsewhere, with rain along the western coasts of Ireland and Norway, and a thunderstorm at Oporto. Rain falling later over the greater part of our Islands, and in parts of Scandinavia, and also at Naples and Hermanstadt.

Temperature at 8 a.m. highest 82° to 77° in Algeria, above 70° in the south generally. Lowest, 47° in the west of Norway and at Kuopio, and 50° or a little below in many Scandinavian districts, 51° in the Shetlands, 52° at Limoges, and 53° at Shields, Frankfurt, and Breslau. Thermometer subsequently rising to 73° at Spurn Head, 74° in London, to about 80° at several French stations, 93° at Athens, 95° at San Fernando and Brindisi, 97° at Aumale, and 100° at Madrid.

Wind in morning light and cyclonic over France and the central countries. A cyclonic circulation of moderate or fresh winds shown over Italy and its neighbourhood, fresh or strong Westerly winds over northern Europe, and strong Southerly winds along our own western coasts. No general change later, but Southerly winds veering somewhat and increasing slightly in force.

Barometer in morning highest, 30.2 ins. to 30.3 ins. in an anticyclone covering the Bay of Biscay, France, most of Germany, the Netherlands, and the southern half of England. Lowest, less than 29.5 ins. in a depression in the extreme north of Russia, about 29.8 ins. in another off our north-western coasts, and less than 29.9 ins. in other systems over Italy and Turkey. Anticyclone moving eastwards later, and gradients increasing both over our Islands and the Gulf of Bothnia. Small disturbance forming over central Spain.

Saturday, 23rd August.



GENERAL NOTES.

During this week barometric pressure has been highest over the southern parts of Europe, lowest in the north-west and north, and depressions have followed one another over the British Islands, the North Sea and Northern Europe, keeping the weather in a cloudy, showery, unsettled condition, except in the far south, and bringing about a further spell of low temperature and unseasonable conditions generally. The first depression to advance was that of Sunday night, and which, with its secondaries, caused the heavy rains over the south-east of England on Monday. It reached the coast of Norway by Tuesday morning, and was followed by cold

North-Westerly winds over the United Kingdom. On Wednesday there was another strongly marked secondary near the Shetlands, and on its passing away a new primary advanced to Ireland, and travelling north-eastward it spread eastward, and to it were due the South-Westerly winds and rains of Friday and Saturday. At the end of the week the area of highest pressure had removed to central Europe, and temperature was rising, but unsettled weather continued.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ————— = a gale; ————— = a fresh to strong breeze; ————— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 200.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	28.4	+ 2.0	27	+ 2	WORKSOP	18.8	- 13.6	19	- 14	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	26.3	- 0.9	26	- 1	THURCASTON	28.2	- 8.0	28	- 8	SOUTHPORT	36.9	—	37	—
EDINBURGH	21.9	- 10.1	22	- 10	MARGATE	33.8	- 7.7	34	- 8	RHYL	37.6	—	38	—
MORPETH	25.1	—	25	—	BROADSTAIRS	37.6	—	37.9	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	15.8	—	16	—	EASTBOURNE	35.7	- 9.9	36	- 10	ABERDOVEY	45.6†	—	46†	—
YORK	24.4	- 8.8	24	- 8	BRIGHTON	38.5	- 9.5	39	- 10	TENBY	42.8	- 0.1	43.2	- 0
CROMER	32.4	—	32	—	WORTHING	39.1	—	37	—	NEWQUAY	—	—	—	—
LOWESTOFT	43.0	—	43	—	BOGNOR	38.2†	—	39†	—	TORQUAY	41.2	- 5.3	42	- 5
DUNMOW	30.4	—	31	—	WATERGATE	35.3	—	36	—	GUERNSEY	39.5†	- 15.2	40†	- 15
HOLLESLEY BAY	44.1	—	45	—	WESTBOURNE	37.3†	- 8.7	38†	- 9					
SHEFFIELD	27.3	—	27	—	VENTNOR HOSPITAL	35.9	- 10.5	36	- 11					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.
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VOL. XIX. No. 35.]
Fourth Series.

WEEK ENDING SATURDAY, AUGUST 30TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

A more detailed explanation of the method of determining the mean of the month is given on page 206.

DISTRICTS. (See p. 206.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	40	61·3	48·3	54·4	1 above	Day-deg. 87	Day-deg. + 7	Day-deg. 0	Day-deg. - 1	Day-deg. 1246	Day-deg. - 239	Day-deg. 660	Day-deg. + 90
	1. SCOTLAND, EAST	72	34	64·5	45·7	54·5	1 below	88	- 5	0	0	1417	- 369	727	+109
	2. ENGLAND, N.E.	71	44	65·6	50·2	57·4	0 (average)	108	+ 4	0	0	1736	- 188	522	+ 13
	3. ENGLAND, EAST	81	41	68·3	51·8	59·6	1 above	123	+ 8	0	0	2074	- 157	516	- 41
	4. MIDLAND COUNTIES	77	39	67·1	49·1	57·6	0 (average)	109	- 3	0	0	2010	- 210	523	- 43
	5. ENGLAND, SOUTH	81	44	69·4	54·7	61·6	2 above	137	+12	0	0	2175	- 244	358	- 55
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	39	63·3	47·2	54·8	1 below	90	- 5	0	0	1682	- 197	483	+ 50
	7. ENGLAND, N.W.	70	39	65·5	50·9	57·8	0 (average)	111	+ 4	0	0	1848	- 202	421	+ 6
	8. ENGLAND, S.W.	77	38	67·1	51·2	58·7	0 (average)	117	+ 3	0	0	2126	- 137	324	+ 6
	9. IRELAND, NORTH	69	35	64·3	48·1	55·7	1 below	96	- 3	0	0	1722	- 271	339	- 28
	10. IRELAND, SOUTH	70	38	65·4	49·1	56·8	1 below	104	- 4	0	0	2135	- 132	240	- 28
	— CHANNEL ISLANDS	79	49	67·7	56·4	61·7	1 above	138	+ 5	0	0	2495	- 71	99	- 24

DISTRICTS. (See p. 206.)		Rainfall.								Bright Sunshine.								
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 8	10ths of in. 2 less	170	+20	29·4	- 0·9	34	+ 9	34	+ 9	858	- 27	26	- 1		
	1. SCOTLAND, EAST	3	2	5 less	141	+14	16·8	- 3·0	50	+18	50	+18	904	-110	28	- 3		
	2. ENGLAND, N.E.	1	3	3 less	123	+ 6	15·0	- 0·8	44	+15	45	+16	967	- 35	30	- 1		
	3. ENGLAND, EAST	3	2	4 less	121	+ 3	15·7	+ 0·1	45	+ 2	47	+ 2	1208	- 57	35	- 2		
	4. MIDLAND COUNTIES	3	3	3 less	117	+ 3	16·0	- 1·6	38	0	39	0	1002*	- 42	32	- 1		
	5. ENGLAND, SOUTH	3	3	2 less	117	+ 7	16·4	- 0·6	50	+ 8	52	+ 8	1216	- 83	37	- 3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	4	7 less	150	+17	30·6	- 0·2	55	+24	57	+24	1005	- 56	31	- 2		
	7. ENGLAND, N.W.	2	1	7 less	142	+19	18·4	- 2·5	52	+22	54	+22	1142	+ 67	36	+ 2		
	8. ENGLAND, S.W.	3	3	5 less	126	0	19·4	- 5·0	54	+13	56	+14	1174	-110	37	- 4		
	9. IRELAND, NORTH	4	3	6 less	169	+22	23·1	+ 0·9	58	+30	60	+31	950	- 25	29	- 1		
	10. IRELAND, SOUTH	3	3	6 less	135	0	21·7	- 3·9	57	+24	59	+25	1081	- 21	34	- 1		
	— CHANNEL ISLANDS	4	3	3 less	130	+ 3	17·3	- 1·7	56	+ 2	59	+ 3	1336	-143	42	- 4		

* 100 per cent.

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period showed a marked improvement on that of the week immediately preceding it, rain falling less frequently, and sunshine being very prevalent. Thunderstorms were, however, experienced in Scotland during the earlier days of the week, and also in many parts of England a little later on. Some of these were accompanied by very heavy rains, and at some stations by severe hailstorms.

Temperature did not differ materially from the mean over the Kingdom as a whole, but was 2° above it in England S. The highest of the maxima occurred, as a rule, on Friday, and ranged from 81° in England S. and E., and 79° in the Channel Islands, to 70° in Scotland W., England N.W., and Ireland S., and to 69° in Ireland N. The absolute minima (registered on irregular dates) were as low as 34° in Scotland E., 35° in Ireland N., and less than 40° in several other districts. In England N.E. and S., however, the thermometer did not descend below 44°, while in the Channel Islands the minimum was 49°. The lowest temperature recorded by a thermometer exposed on the grass was 32° at Ochertyre, and occurred on Friday.

Rainfall was less than the mean in all districts, the fall being especially slight in the north of England and east of Scotland.

Bright Sunshine exceeded the mean in all districts excepting the Midland Counties, and the excess was generally large. The percentage of the possible duration ranged from 60° in Ireland N., 59° in Ireland S. and the Channel Islands, and 57° in Scotland W., to 39° in the Midland Counties, and 34° in Scotland N.

Barometer and Wind. The baric changes over our Islands during this week, although not very great, were very frequent. Shallow cyclonic disturbances appeared from the westward or South-westward, and traversing various parts of our Islands or their immediate neighbourhood, caused the wind to frequently change its direction. It blew, however, mostly from between south and South-West or West, except at the end of the period, when, owing to a disturbance having arrived over the Netherlands from the Bay of Biscay, it shifted temporarily to the Northward.

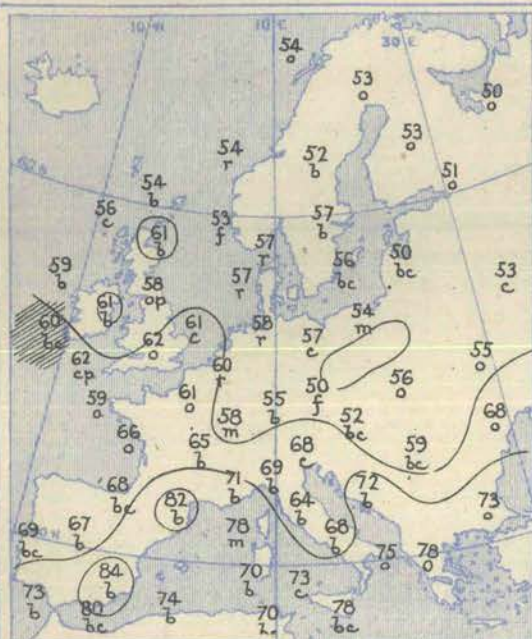
DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Averages for the Week.					Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).								
		Highest observed.	Lowest observed.	Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N.	Sumburgh Head	58	45	55.3	47.9	51.4	- 0.6	66	0	4	0.57	- 0.19	*	*	*	*
	Stornoway	66	45	61.6	48.4	54.6	+ 1.5	88	0	4	0.53	- 0.34	37.4	+ 9.4	38	+ 10
	Wick	68	48	60.9	49.6	54.9	+ 1.2	90	0	4	0.56	- 0.04	*	*	*	*
	Lairg	71	45	66.4	47.2	56.2	+ 2.7	99	0	4	1.57	+ 0.91	*	*	*	*
	Glencarron	65	43	60.6	47.6	53.7	+ 1.6	82	0	6	0.97	- 0.65	*	*	*	*
	Fort Augustus	66	40	62.4	47.2	54.3	- 1.0	86	0	3	0.38	- 0.42	28.1	+ 8.8	28	+ 9
1. SCOTLAND, E.	Fort William	66	47	61.7	50.3	55.7	- 0.1	96	0	5	0.81	- 0.65	22.3	- 0.2	23	0
	Nairn	69	41	65.1	47.1	55.6	+ 0.5	95	0	3	0.25	- 0.35	*	*	*	*
	Aberdeen	69	43	62.6	47.9	54.8	- 0.1	90	0	3	0.12	- 0.55	48.0	+ 15.4	49	+ 15
	Braemar	64	34	60.5	41.4	50.4	- 1.7	61	2	3	0.20	- 0.63	*	*	*	*
	Ochertyre	71	38	66.9	43.3	5	- 1.4	87	0	2	0.20	- 0.64	*	*	*	*
	Leith	72	45	68.1	58.6	+ 1.5	116	0	2	0.17	- 0.39	*	*	*	*	
2. ENGLAND, N.E.	Marchmont	68	42	63.6	44.3	53.4	- 1.5	80	0	2	0.29	- 0.47	42.3	+ 10.2	43	+ 10
	Alnwick Castle	69	44	65.3	48.2	56.2	+ 0.6	99	0	2	0.05	- 0.62	*	*	*	*
	Durham	68	44	65.0	49.2	56.6	- 0.1	102	0	0	0.00	- 0.58	45.1	+ 13.9	46	+ 14
	Shields	69	46	63.7	52.0	57.5	+ 1.1	109	0	1	0.17	- 0.43	*	*	*	*
	Scarborough	70	46	67.6	47.4	56.9	- 0.4	104	0	1	0.04	- 0.56	41.7	—	43	—
	Spurn Head	70	53	63.6	54.4	58.7	+ 0.3	117	0	1	0.42	- 0.00	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	71	44	68.3	49.9	58.6	+ 0.7	116	0	3	1.08	+ 0.54	*	*	*	*
	Hillington	79	42	70.1	48.9	58.9	+ 0.1	118	0	3	0.10	- 0.52	42.4	+ 5.0	44	+ 5
	Yarmouth	67	51	64.4	55.3	59.6	+ 0.3	123	0	2	0.05	- 0.48	*	*	*	*
	Geldeston	75	41	68.4	50.1	58.7	- 0.3	117	0	2	0.23	- 0.24	45.4	+ 4.7	47	+ 5
	Cambridge	81	45	71.4	51.1	60.6	+ 1.0	130	0	3	0.15	- 0.36	39.4	- 0.2	41	0
	Felixstowe	71	52	67.3	55.0	60.8	+ 1.8	132	0	2	0.28	—	48.2†	—	50†	—
4. MIDLAND COUNTIES	Rothamsted	76	45	68.1	50.6	58.8	+ 0.5	118	0	4	0.30	- 0.26	38.1	- 1.6	40	- 2
	Harrogate	69	44	65.6	49.2	56.9	+ 0.3	104	0	2	0.07	- 0.60	47.0	—	49	—
	Bawtry (Hesley Hall)	73	41	68.7	48.3	57.9	0.0	111	0	3	0.58	+ 0.06	*	*	*	*
	Loughborough	72	39	67.6	48.3	57.4	- 1.6	108	0	6	0.18	- 0.38	*	*	*	*
	Colly Weston (Stamford)	77	43	69.6	50.1	59.3	0.0	121	0	4	0.33	- 0.21	*	*	*	*
	Cheadle	67	46	63.7	50.3	56.6	+ 0.3	102	0	3	0.16	- 0.61	*	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	69	46	66.2	51.2	58.3	+ 0.5	114	0	3	0.82	+ 0.20	37.6	—	39	—
	Churchstoke	68	40	65.3	46.4	55.3	- 1.3	93	0	2	0.07	- 0.53	45.3	+ 9.3	47	+ 10
	Hereford	70	39	66.4	47.4	56.3	- 2.4	100	0	3	0.56	+ 0.01	*	*	*	*
	Cirencester	72	44	68.4	50.1	58.7	+ 1.4	117	0	4	0.56	- 0.14	31.3	- 6.9	33	- 7
	Oxford	74	44	69.7	50.1	59.3	- 0.1	121	0	3	0.11	- 0.43	36.5	- 2.9	38	- 3
	London	81	49	72.7	53.0	62.3	+ 1.7	142	0	2	0.10	- 0.41	31.8†	- 4.1†	33†	- 4†
6. SCOTLAND, W.	Swarraton (Alresford)	78	44	69.2	50.2	59.1	+ 1.3	120	0	3	0.32	- 0.33	*	*	*	*
	Dungeness	71	54	67.7	56.9	62.0	+ 1.3	140	0	4	0.23	- 0.24	47.8	—	50	—
	Hastings (St. Leonards)	77	53	68.5	55.6	61.7	+ 1.1	138	0	3	0.29	- 0.28	53.0	+ 8.0	55	+ 8
	Southampton	79	50	73.0	54.8	63.4	+ 2.6	150	0	2	0.41	- 0.21	52.9	+ 9.2	55	+ 10
	Portland Bill	68	53	65.9	57.1	61.2	+ 1.1	134	0	3	0.43	—	*	*	*	*
	Shaftesbury	75	50	68.6	55.0	61.4	+ 2.8	136	0	3	0.59	- 0.09	*	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	67	48	61.5	51.8	56.4	+ 0.6	101	0	4	0.50	- 0.87	*	*	*	*
	Glasgow	65	39	62.0	48.7	55.0	- 0.5	91	0	4	0.96	+ 0.06	41.7	+ 15.1	42	+ 15
	Cally	70	40	64.9	41.9	52.7	- 2.7	75	0	0	0.00	- 1.05	*	*	*	*
	Douglas (Isle of Man)	66	43	64.8	46.4	55.1	- 1.1	92	0	0	0.00	- 0.87	69.0	+ 32.4	71	+ 33
	Newton Reigny	69	39	66.3	46.0	55.5	0.0	95	0	1	0.01	—	50.1	—	51	—
	Stonyhurst	68	47	64.3	50.1	56.8	0.0	104	0	3	0.22	- 0.94	46.6	+ 14.9	48	+ 15
8. ENGLAND, S.W.	Blackpool	67	46	65.0	50.1	57.1	- 0.9	106	0	2	0.03	- 0.76	57.0	+ 24.4	59	+ 25
	Manchester (Prestwich)	70	44	66.4	49.7	57.6	+ 0.5	109	0	3	0.13	- 0.72	36.4	—	38	—
	Liverpool Obsy. (Bidston)	70	49	65.4	53.0	58.8	+ 0.1	118	0	0	0.00	- 0.68	56.5	—	58	—
	Chester	70	44	67.3	51.6	59.0	+ 0.1	119	0	3	0.20	—	*	*	*	*
	Llandudno	68	51	66.3	53.1	59.3	+ 0.3	121	0	0	0.00	- 0.65	59.4	+ 25.3	61	+ 26
	Holyhead	66	52	62.7	53.7	57.9	- 0.3	111	0	0	0.00	- 0.70	*	*	*	*
9. IRELAND, N.	Llandoverly	75	38	69.1	45.6	56.7	- 1.2	103	0	2	0.08	- 1.00	*	*	*	*
	Pembroke	65	52	63.4	54.3	58.6	+ 0.2	116	0	1	0.15	- 0.54	53.9	+ 13.2	56	+ 14
	Clifton	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Bath	73	44	68.3	50.9	59.1	- 1.8	120	0	3	0.32	- 0.33	43.7	—	46	—
	Arlington (N. Devon)	71	41	66.4	50.3	57.9	+ 0.2	111	0	2	0.34	- 0.81	*	*	*	*
	Cullompton	74	41	68.5	49.9	58.6	- 0.3	116	0	4	0.42	- 0.25	43.1	+ 4.3	45	+ 4
10. IRELAND, S.	Falmouth	72	50	65.2	54.4	59.5	+ 0.1	123	0	3	0.42	- 0.43	60.5	+ 15.5	64	+ 17
	Plymouth	77	45	68.9	53.0	60.5	+ 0.6	130	0	3	0.35	- 0.34	61.5	+ 19.6	65	+ 21
	Malin Head	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Edenfel (Omagh)	69	37	65.0	46.1	55.0	- 0.1	91	0	2	0.31	- 0.52	*	*	*	*
	Blacksod Point	66	50	62.6	54.0	58.0	+ 0.7	112	0	4	0.20	- 0.93	*	*	*	*
	Markree Castle	68	35	65.0	44.8	54.3	- 1.4	86	0	4	0.43	- 0.50	48.7	+ 20.8	50	+ 22
CHANNEL ISLANDS	Armagh	69	39	65.5	47.4	55.9	- 0.3	97	0	5	0.35	- 0.37	66.6	+ 38.6	69	+ 40
	Donaghadee	67	45	63.6	48.0	55.3	- 1.2	93	0	3	0.18	- 0.54	*	*	*	*
	Dublin	67	45	64.7	50.0	56.9	- 1.3	104	0	3	0.42	- 0.22	57.8	+ 22.3	60	+ 23
	Parsonstown	69	38	66.4	46.1	55.6	- 1.3	95	0	1	0.05	- 0.75	64.1	+ 33.1	66	+ 34
	Kilkenny	69	41	66.1	45.9	55.4	- 2.3	94	0	2	0.12	- 0.62	*	*	*	*
	Roche's Point	65	47	63.1	50.6	56.5	- 2.2	102	0	6	0.57	- 0.29	*	*	*	*
CHANNEL ISLANDS	Valencia	67	47	63.4	52.0	57.4	- 0.8	108	0	4	0.41	- 0.66	50.1	+ 16.9	52	+ 17
	Killarney	70	41	67.7	49.2	57.9	+ 0.1	111	0	4	0.21	- 0.82	*	*	*	*
	Foynes	68	46	66.5	50.2	57.9	+ 0.4	111	0	1	0.35	- 0.52	*	*	*	*
	Scilly (St. Mary's)	66	57	65.0	58.1	61.3	+ 1.1	135	0	4	0.21	- 0.40	60.4	—	64	—
	Jersey	79	49	70.3	54.6	62.0	- 0.1	140	0	4	0.36	- 0.24	56.8	+ 5.0	60	+ 5

* An Asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Records are in use.
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.
NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 24th August.

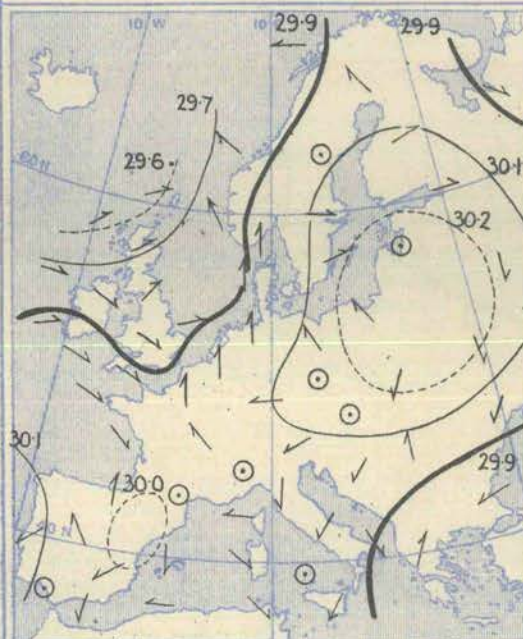
Temperature and Weather.

8 a.m.

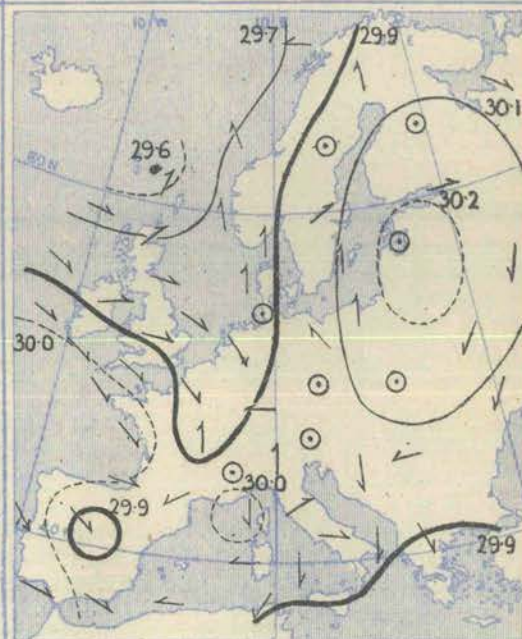


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over our area as a whole, but rain falling at some stations in the north of France, at Brussels, over Denmark and at Christiansund, and passing showers at Shields. Rain falling later over the greater part of our Islands, and over north-western Europe generally—as much as 1.14 ins. at Skagen.

Temperature at 8 a.m. highest, 84° to 82° on the east coast of Spain and at Palma, 80° at Nemours, and above 70° in most southern regions. Lowest, 49° at Warsaw and Breslau, 50° or a few degrees above over the northern parts of Russia and Scandinavia, 54° in the Shetlands and at Donaghadee. Maxima during day, 70° at Leith and in London, 71° at Oxford, between 70° and 80° or above in most parts of France and over central Europe, 90° at Cagliari and Palermo, 95° at Annale, and 97° at Madrid.

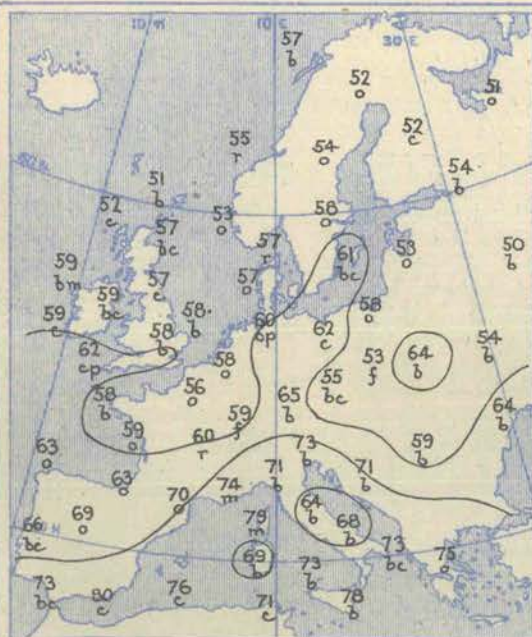
Wind in morning light and anticyclonic over Russia and the central regions, light or moderate Westerly and South-Westerly to Southerly over our Islands and France; Southerly breezes prevailing to the eastward of the North Sea, and light variable airs over the southern countries. Very little change during day, but a cyclonic movement setting in over Spain.

Barometer in morning ranging from 30.2 ins. and upwards in a well-defined anticyclone over central and western Russia and Poland, and from above 30.1 ins. over Portugal, to below 29.6 ins. off the north of Scotland. Anticyclone becoming somewhat reduced in size during day, and a cyclonic disturbance forming over central Spain. No other important change.

Monday, 25th August.

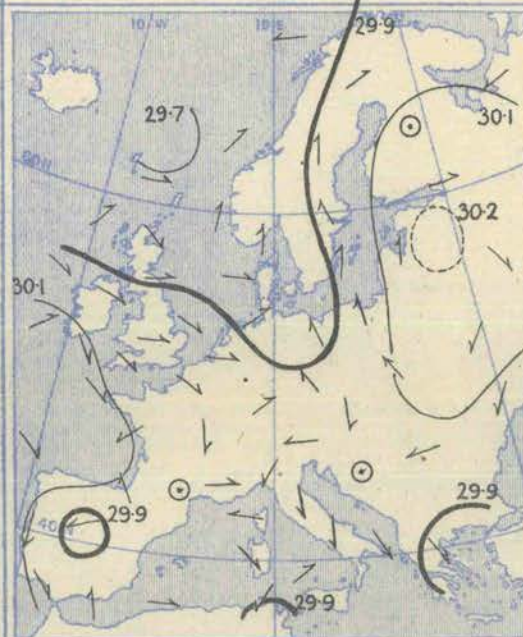
Temperature and Weather.

8 a.m.

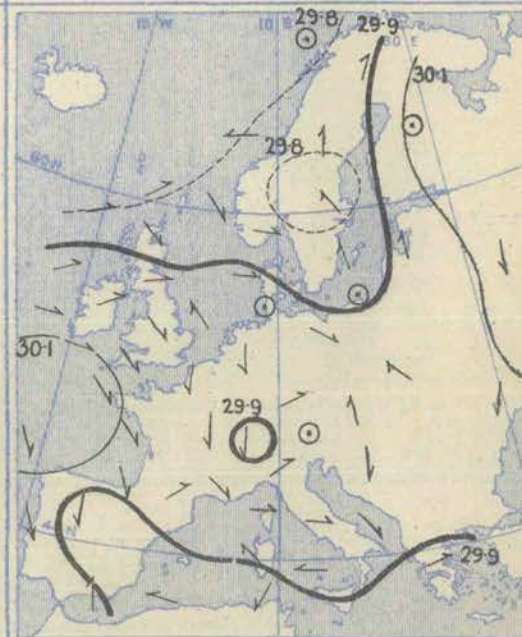


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over Scandinavia, the Baltic, and North Germany, with rain in places. Fine in most other regions, but showery in the Scilly Islands. Light rain falling later in a few British and Irish localities, and heavier amounts over the western countries generally. More than inch over the south-east and south of France. Some rain also experienced at Madrid and Athens.

Temperature at 8 a.m. highest, 80° at Nemours, 79° at Sanguinaire, 78° at Malta, 75° at Athens, and 70°, or above, in many southern and Mediterranean localities. Lowest (1) 50° at Moscow, 51° at Archangel, and 52° at Haparanda and Kuopio, (2) 51° and 52° respectively in the Shetlands and Hebrides, and (3) 55° at Limoges. Subsequently rising to 70° at Oxford and in London, to 80°, or above, over the southern countries, and to 90° at Nemours.

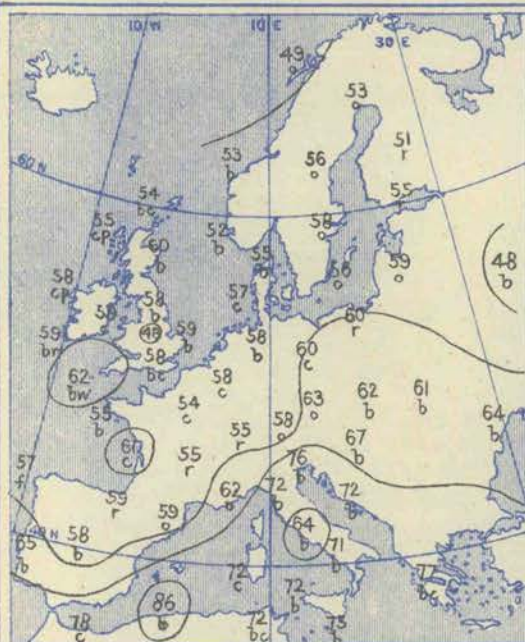
Wind in morning light, or moderate, from North-West or West over our Islands, the north of France and the Netherlands, and drawing into South or South-East over Germany and Scandinavia. Mostly light and variable over the southern regions, moderate to fresh and cyclonic over the Iberian Peninsula. No decided change later.

Barometer at 8 a.m. highest, 30.1 ins. to 30.2 ins. in an anticyclone covering the greater part of Russia, and above 30.1 ins. in another system over the Bay of Biscay and the adjoining portion of the Atlantic. Lowest, 29.7 ins. in a depression to the northward of the Shetlands, below 29.8 ins. in a secondary over Denmark, and 29.9 ins. and less in three disturbances over southern Europe and the Mediterranean. Russian anticyclone decreasing slowly in height during day; Danish depression moving northwards to Sweden and increasing in size.

Tuesday, 26th August.

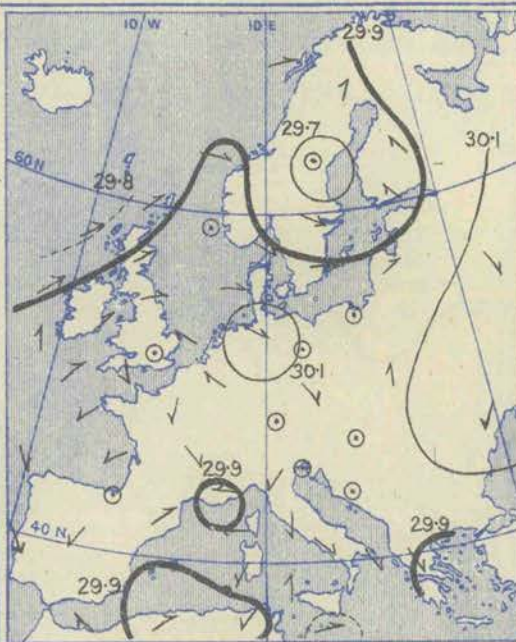
Temperature and Weather.

8 a.m.

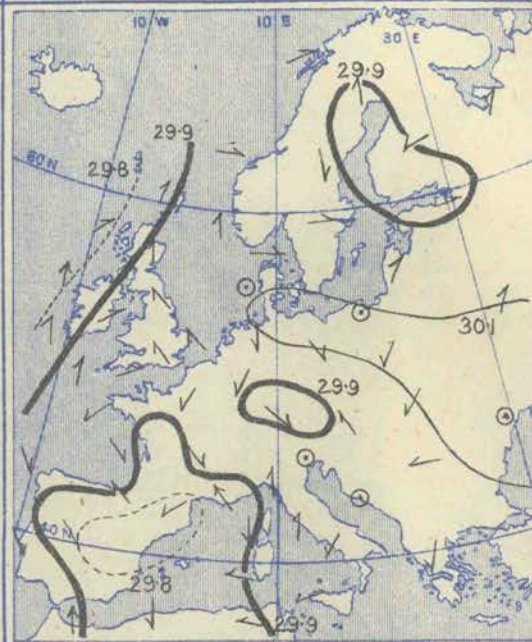


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of the United Kingdom, but showery on our extreme north-west coasts. Rainy in Finland, at Neu-Fahrwasser, Biarritz, Lyons, and Belfort, but fair or fine over the Continent as a whole. Rain falling later over the Netherlands, Germany, a few parts of our Islands, and in various parts of France—as much as 1.7 ins. at Lyons, and 1.3 ins. at Cotte.

Temperature at 8 a.m. highest, 86° at Algiers, 77° at Patras, 76° at Brindisi and Trieste; a little above or slightly below 70° in the south generally, but only 58° at Madrid. Lowest, (1) 48° at Loughborough, (2) 49° at Bodø, 51° at Kuopio, (3) 53° at Le Mans. Subsequently rising to 72° at Leith, Loughborough, and in London, to nearly 80° in the west and south of France, to above that value in Italy, to 91° at Algiers, and to 95° at Aumale.

Wind in morning light and anticyclonic over the greater part of our area, but cyclonic over Scandinavia, the Westerly current in the south blowing strongly. South-Westerly and moderate on our north-west coasts, and strong from North-North-West at Lisbon. South-Westerly current extending more over our Islands by evening, but wind over the Continent becoming very variable in direction.

Barometer in morning ranging from 30.1 ins. to 29.0 ins. in a large area extending eastwards in the form of a broad band from Spain and the Bay of Biscay, across England and the more central countries to Russia, to less than 29.9 ins. in a small disturbance in the south of France, and to less than 29.7 ins. in a more important system near Hernösand. Latter moving eastwards later, and a new disturbance forming over central Europe. Western half of high pressure band dispersing.

Wednesday, 27th August.

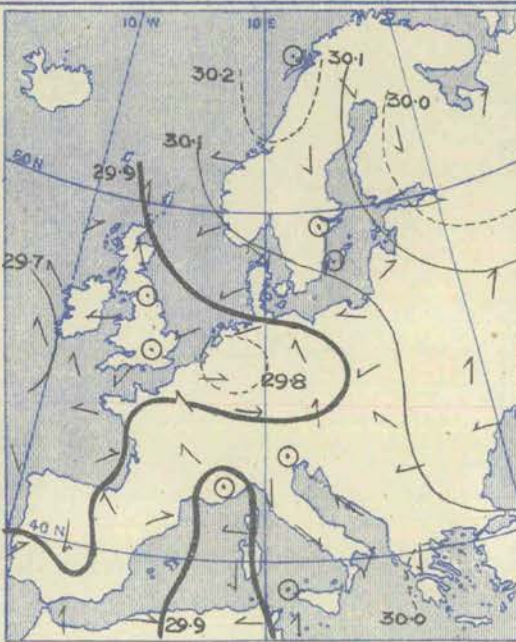
Temperature and Weather.

8 a.m.



Barometer and Wind.

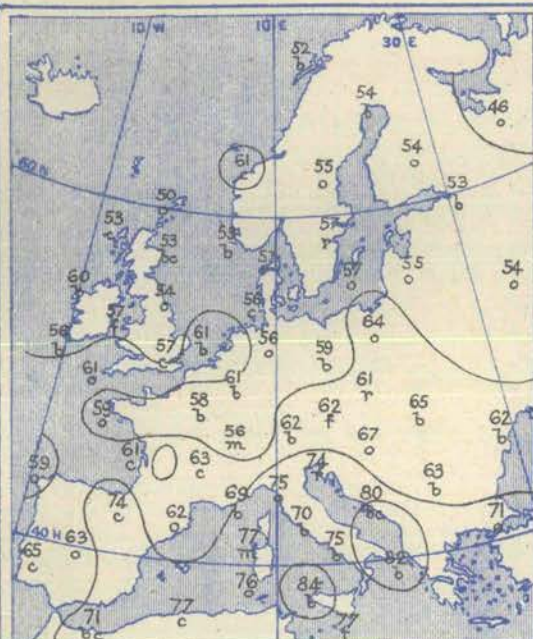
8 a.m.



Thursday, 28th August.

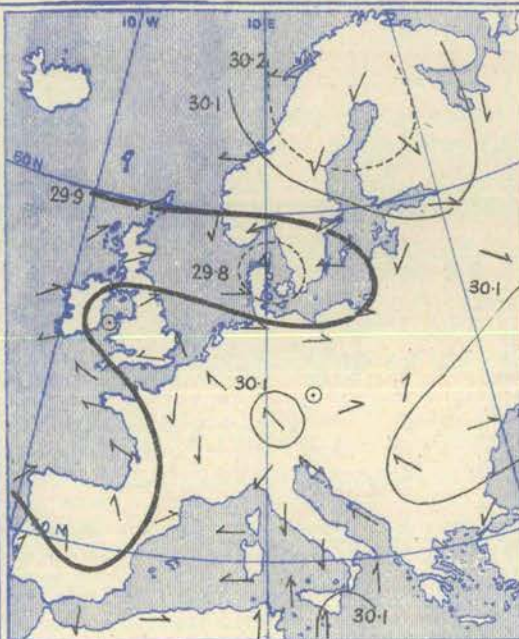
Temperature and Weather.

8 a.m.

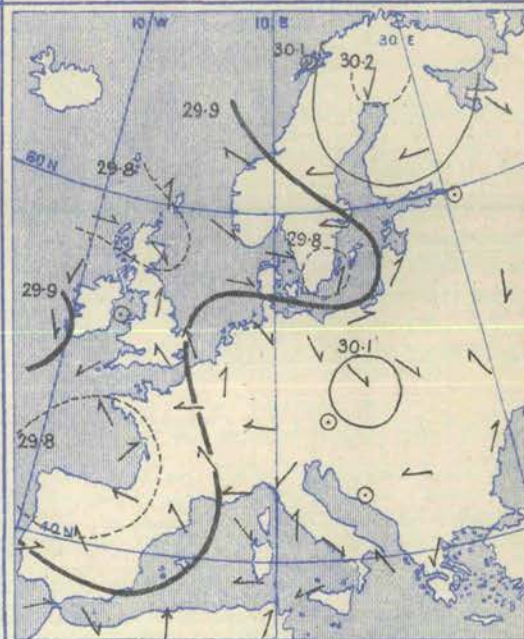


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in most parts of our area, but showery at Malin Head, and rainy over Denmark and the south of Scandinavia. Rain falling later over our western and northern districts, and also over the northern parts of Europe generally. Thunderstorms occurring at Spurn Head and over the west of France, and rain at several Spanish stations.

Temperature at 8 a.m. highest, 84° at Palermo, 82° at Brindisi, 80° at Pesaro; above 70° in most southern regions, but only 68° at Madrid. Lowest, 46° at Archangel, 50° at Sumburgh Head and Parsonstown, 51° at Loughborough, and 54° at Limoges. Rising later to 77° in London, to above 80° over southern Europe and Algeria, to 91° at Florence, 96° at Palermo, and 99° at Aumale.

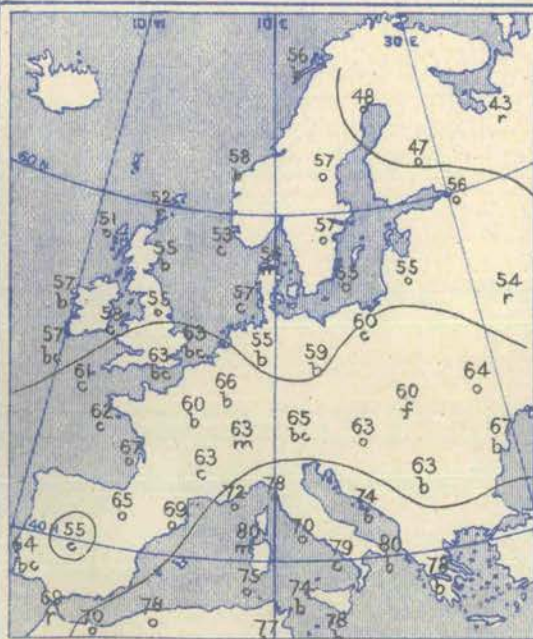
Wind rather variable and of little force, but generally South-Easterly or Easterly over the west of France and our south-west coasts, and South-Westerly or Southerly in the north of our Islands. A cyclonic circulation around Denmark, and the Easterly wind at Faerø blowing strongly. No important change during day.

Barometer in morning highest, above 30.2 ins. over Lapland, the north of Scandinavia, and the adjoining part of Finland, and above 30.1 ins. over south-eastern Europe and Bavaria. Lowest, about 29.7 ins. in a cyclonic disturbance over the north of Denmark, and 29.8 ins. in another system to the westward of Brittany. Danish depression moving eastwards later, that off the coast of Brittany increasing in size, and another system appearing over north Scotland. Pressure giving way over south-eastern Europe, and northern high-pressure area moving eastwards.

Friday, 29th August.

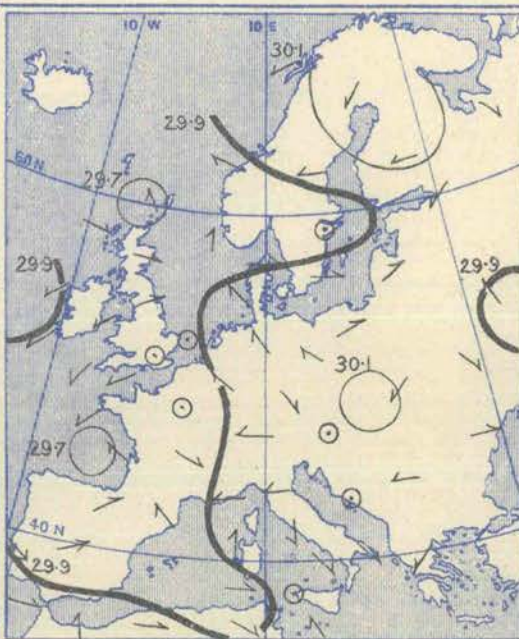
Temperature and Weather.

8 a.m.

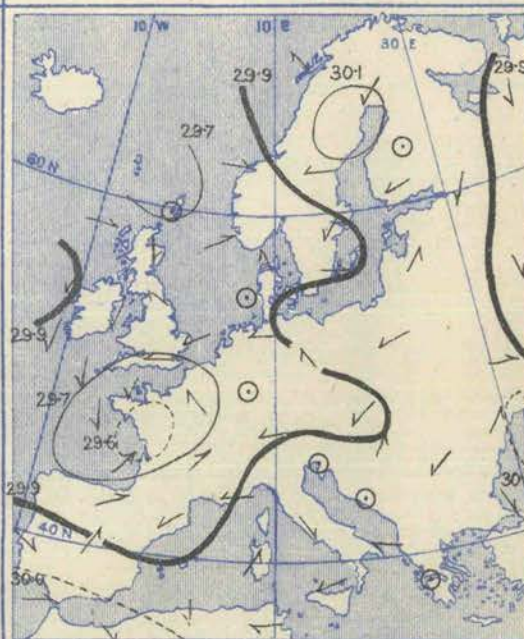


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in most regions, with rain in the north of Scotland, at Archangel, Moscow, and also at Cape Sicié, Bilbao, and San Fernando. Fine over Italy and south-eastern Europe, as well as in some British and German localities. More than an inch of rain falling later in many parts of France, and smaller amounts in Algeria, Germany, the Netherlands, on our own southern and northern coasts, and in various parts of northern Europe.

Temperature at 8 a.m. highest, 80° at Brindisi and Sanguinaire, 78° at Athens, Malta, Algiers, and Leghorn, and between 65° and 75° in the south generally; highest in our Islands, 67° at Dungeness. Lowest, 43° at Archangel, 47° at Kuopio, 51° at Wick and Stornoway, 54° at Parsonstown, and 55° at Madrid. Maxima during day less than 60° on our extreme north and north-west coasts, and less than 70° at most of our stations, but 81° in London, above 80° over the central and southern countries generally, 96° at Palermo, and 102° at Aumale.

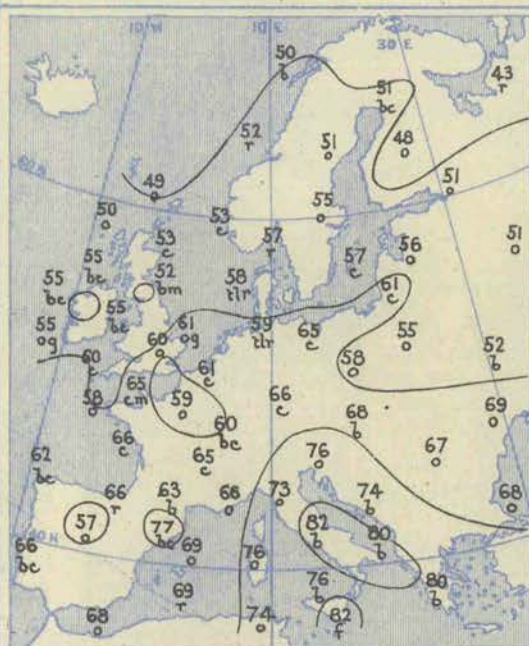
Wind at 8 a.m. showing several complete or partial cyclonic circulations of light or moderate winds, the chief being over and to the northward of Scotland, over the west of France and the Bay of Biscay, and over central Russia. Light and mainly anticyclonic over central Europe. No important change during day.

Barometer in morning ranging from 30.1 ins. and upward in anticyclonic areas lying respectively over central Europe and the western parts of Sweden and Finland, to 29.9 ins. and less in a depression near Moscow, about 29.7 ins. in another system over the Bay of Biscay, and to less than 29.7 ins. in a third near the Shetlands. The more southern high-pressure area giving way slowly later, depression near Moscow moving eastwards, that over the Bay of Biscay moving north-eastwards to France, and that to the northward of Scotland travelling slowly eastwards.

Saturday, 30th August.

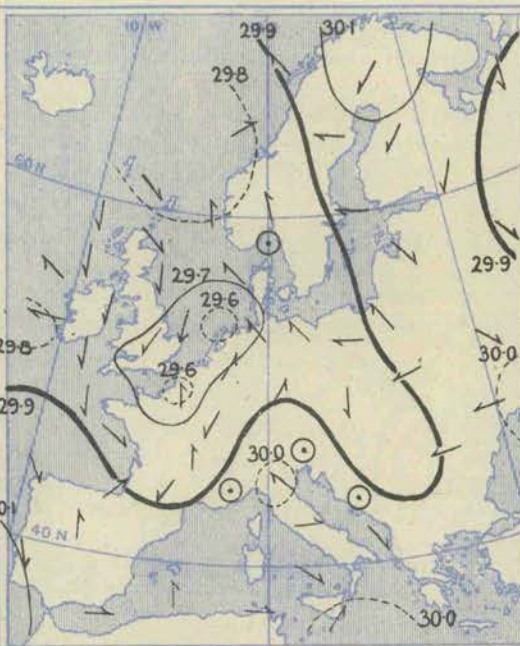
Temperature and Weather.

8 a.m.

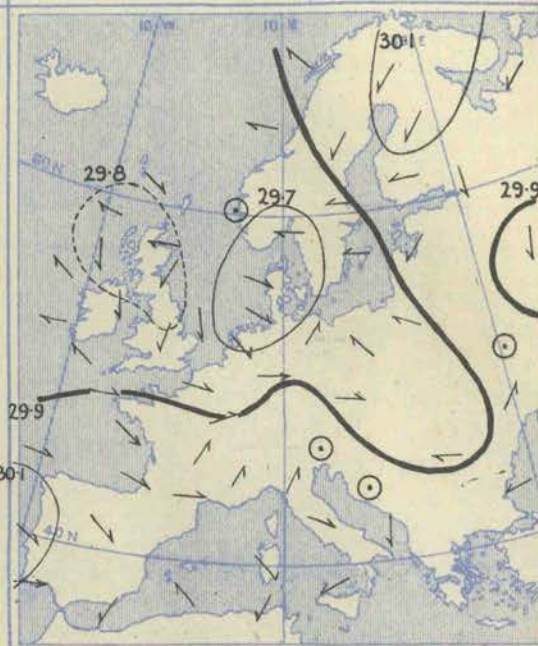


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or overcast generally, but fine and bright in Greece and the south of Italy, and temporarily so in most parts of Ireland. Rainy in different parts of England, the Netherlands, France and Algeria, as well as at Archangel, and thunderstorms prevailing at Cuxhaven and Fanø. Rain falling later in the south and south-west of our Islands, over France and Germany, and also in Scandinavia and Finland. Amounts more than an inch at the Helder, Skagen, and Charleville (France).

Temperature fallen in most places, but risen at some German and Mediterranean stations. Readings at 8 a.m. highest, 82° at Malta and Naples, 81° at Sfax, 80° in Greece, and between 70° and 80° at most southern stations. Lowest, (1) 43° at Archangel, (2) 49° at Sumburgh Head, (3) 48° at Parsonstown, (4) 52° at Kief, (5) 57° at Madrid. Rising later to between 75° and 85° in most southern regions during day, to 95° at Brindisi and 97° at Palermo. Not rising higher than 57° at Shields, and 56° at Aberdeen.

Wind in morning showing several complete or partial cyclonic movements, the former being around the Netherlands and the north-east of France. Light or moderate generally, but Northerly current over England fresh in places. Light and variable airs prevailing over the Mediterranean and its neighbourhood. Cyclonic circulations becoming less well-marked later, and Northerly wind over England decreasing in force.

Barometer at 8 a.m. highest, 30.1 ins. and upwards over Lapland and the north of Sweden; nearly as high at Lisbon. Lowest, 29.6 ins. and less, in a complex depression with two minima lying over the Netherlands and the north-east of France; below 29.3 ins. off the west of Norway, and also off the south-west of Ireland. Complex disturbance moving north-eastwards during day, and another disturbance advancing towards the south-west of Ireland.

GENERAL NOTES.

During the earlier half of the period anticyclonic areas were shown over the central or eastern part of our area, but towards its close the highest pressures were observed over central and the extreme north of Europe. Over the more western and north-western regions depressions were very numerous, and although, owing to their little depth, they had little effect on the force of the wind, they kept the weather in an unsettled state, with occasional rain and thunderstorms. The disturbances mostly advanced from the Atlantic and moved eastwards or north-eastwards, but on Wednesday and Thursday a system which had apparently been

developed over Germany moved northwards and north-eastwards over the Netherlands and Denmark. Over the Mediterranean and the southern countries the weather was generally fine and the temperature high, but some considerable falls of rain were experienced over Spain and the south of France towards the end of the week. Maximum temperatures of 90° and above were very common in the southern regions, but the thermometer rarely rose above 70° over our Islands. Friday, however, was an exception, for on that day the maximum in London and also at Cambridge was as high as 81°.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ————— = a gale; ————— = a fresh to strong breeze; ————— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations is given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 206.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	41.0	+ 15.0	41	+ 15	WORKSOP	33.3	+ 2.1	34	+ 2	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	39.5	+ 12.4	40	+ 12	THURCASTON	33.1	+ 1.3	34	+ 1	SOUTHPORT	57.0	—	50	—
EDINBURGH	58.9	+ 28.7	60	+ 30	MARGATE	41.7	+ 2.1	43	+ 2	RHYL	—	—	—	—
MORPETH	49.3	—	50	—	BROADSTAIRS	44.2	—	46	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	35.3	—	36	—	EASTBOURNE	57.5	+ 13.5	60	+ 14	ABERDOVEY	54.3†	—	56†	—
YORK	48.1	+ 16.7	50	+ 17	BRIGHTON	62.7	+ 17.2	65	+ 18	TENBY	54.6	+ 13.6	57	+ 14
CROMER	51.5	—	53	—	WORTHING	53.1	—	55	—	NEWQUAY	58.5	+ 14.1	62	+ 16
LOWESTOFT	47.4	—	49	—	BOGNOR	53.0†	—	55†	—	TORQUAY	53.9	+ 9.7	57	+ 19
DUNMOW	40.2	—	42	—	WATERGATE	47.9	—	50	—	GUERNSEY	51.1†	— 0.3	54†	—
HOLLESLEY BAY	51.9	—	54	—	WESTBOURNE	51.6†	+ 7.5	54†	+ 8					
SHEFFIELD	39.5	—	41	—	VENTNOR HOSPITAL	51.9	+ 7.2	54	+ 8					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Vol. XIX. No. 36.]
Fourth Series.

WEEK ENDING SATURDAY, SEPTEMBER 6TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 212.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	40	61·3	49·3	55·0	2 above	Day-deg. 91	Day-deg. +17	Day-deg. 0	Day-deg. - 1	Day-deg. 1337	Day-deg. -222	Day-deg. 660	Day-deg. + 89
	1. SCOTLAND, EAST	71	39	63·2	48·1	55·3	1 above	93	+10	0	0	1510	-359	727	+109
	2. ENGLAND, N.E.	73	38	65·0	50·5	57·4	2 above	108	+13	0	0	1844	-175	522	+ 13
	3. ENGLAND, EAST	74	43	68·1	53·6	60·5	3 above	130	+24	0	0	2204	-133	516	- 41
	4. MIDLAND COUNTIES	75	40	66·8	52·1	59·1	2 above	120	+18	0	0	2130	-192	523	- 43
	5. ENGLAND, SOUTH	72	45	66·9	56·0	61·2	3 above	134	+16	0	0	2309	-223	358	- 55
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	67	40	62·2	50·6	56·1	2 above	99	+10	0	0	1780*	-188	483	+ 50
	7. ENGLAND, N.W.	74	40	65·3	52·4	58·5	2 above	116	+16	0	0	1964	-186	421	+ 6
	8. ENGLAND, S.W.	73	36	65·7	53·7	59·4	2 above	122	+14	0	0	2252*	-119	324	+ 6
	9. IRELAND, NORTH	69	35	64·2	50·1	56·8	2 above	104	+12	0	0	1826	-259	339	- 28
	10. IRELAND, SOUTH	72	45	66·1	52·3	58·9	2 above	118	+17	0	0	2253	-115	240	- 28
	— CHANNEL ISLANDS	70	52	67·0	57·5	62·0	2 above	140	+13	0	0	2635	- 58	99	- 24

DISTRICTS. (See p. 212.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	16	6 more	176	+22	31·0	- 0·3	21	- 3	23	- 3	879	- 31	26	- 1
	1. SCOTLAND, EAST	5	5	2 less	146	+15	17·3	- 3·2	17	-12	18	-13	921	-123	27	- 4
	2. ENGLAND, N.E.	3	1	4 less	126	+ 5	15·1	- 1·3	31	+ 3	33	+ 3	998	- 32	30	- 1
	3. ENGLAND, EAST	3	7	1 more	124	+ 2	16·4	+ 0·2	37	0	40	0	1245	- 57	35	- 2
	4. MIDLAND COUNTIES	3	4	3 less	120	+ 3	16·4	- 1·8	40	+ 6	43	+ 7	1042	- 36	33	- 1
	5. ENGLAND, SOUTH	4	12	5 more	121	+ 8	17·6	0·0	33	- 7	36	- 8	1249	- 90	37	- 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	23	12 more	156	+19	32·9	+ 1·0	16	-14	17	-15	1021	- 70	30	- 2
	7. ENGLAND, N.W.	4	4	4 less	146	+19	18·8	- 2·9	35	+ 7	38	+ 8	1178*	+ 75	36	+ 2
	8. ENGLAND, S.W.	5	6	2 less	132	+ 2	20·1	- 5·1	37	- 2	40	- 2	1211	-112	37	- 3
	9. IRELAND, NORTH	5	17	9 more	174	+23	24·8	+ 1·8	36	+ 9	38	+11	986	- 16	30	- 1
	10. IRELAND, SOUTH	5	13	5 more	140	+ 1	23·0	- 3·4	38	+ 6	41	+ 6	1119	- 16	34	- 1
	— CHANNEL ISLANDS	5	8	1 more	135	+ 5	18·1	- 1·6	43	- 3	46	- 4	1379	-146	42	- 5

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	61	44	54.9	47.7	51.1	- 0.2	64	0	0.67	- 0.11	*	*	*	*
	Stornoway	65	47	61.7	49.6	55.4	+ 3.1	94	0	1.03	+ 0.12	28.2	+ 1.2	30	+ 1
	Wick	65	42	60.0	49.3	54.4	+ 1.6	87	0	0.48	- 0.12	*	*	*	*
	Lairg	70	45	65.3	48.3	56.4	+ 4.2	104	0	1.63	+ 0.95	*	*	*	*
	Glencarron	67	46	62.0	48.8	55.1	+ 2.9	92	0	3.48	+ 1.80	*	*	*	*
	Fort Augustus	68	40	63.0	49.6	56.0	+ 1.8	98	0	1.27	+ 0.42	18.7	- 0.5	20	- 1
1. SCOTLAND, E.	Fort William	68	46	61.9	51.5	56.5	+ 1.9	102	0	2.31	+ 0.76	10.5	- 12.1	11	- 13
	Nairn	69	40	65.6	49.0	56.9	+ 2.7	104	0	0.39	- 0.21	*	*	*	*
	Aberdeen	66	47	61.0	50.4	55.5	+ 1.7	95	0	0.38	- 0.28	23.6	- 7.6	25	- 8
	Braemar	63	41	59.7	47.0	53.1	+ 2.2	78	0	0.73	- 0.04	*	*	*	*
	Ochertyre	67	43	64.3	49.6	56.6	+ 2.0	102	0	0.84	+ 0.01	*	*	*	*
	Leith	71	43	64.0	49.4	56.4	+ 0.3	101	0	0.36	- 0.18	*	*	*	*
2. ENGLAND, N.E.	Marchmont	67	39	64.3	43.0	53.1	- 0.5	78	0	0.40	- 0.35	18.8	- 11.2	20	- 12
	Alnwick Castle	71	38	63.4	47.2	54.9	+ 0.5	90	0	0.09	- 0.55	*	*	*	*
	Durham	69	42	62.9	48.4	55.3	- 0.1	93	0	0.14	- 0.40	26.7	- 2.9	28	- 3
	Shields	70	46	64.1	50.3	56.9	+ 1.8	104	0	0.01	- 0.54	*	*	*	*
	Scarborough	72	43	65.8	50.6	57.8	+ 1.5	111	0	0.07	- 0.52	40.9	-	44	-
	Spurn Head	71	50	66.0	53.7	59.6	+ 2.1	123	0	0.12	- 0.29	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	73	47	67.9	52.7	59.9	+ 3.3	125	0	0.18	- 0.34	*	*	*	*
	Hillington	72	43	69.4	51.5	60.0	+ 2.6	126	0	0.37	- 0.23	37.3	+ 2.5	40	+ 3
	Yarmouth	71	50	65.7	54.7	59.9	+ 1.7	125	0	0.46	- 0.10	*	*	*	*
	Geldeston	74	43	69.2	52.3	60.3	+ 2.5	128	0	0.74	+ 0.22	33.5	- 5.8	36	- 6
	Cambridge	73	47	70.2	53.0	61.2	+ 2.8	134	0	0.34	- 0.16	41.6	+ 4.1	45	+ 4
	Felixstowe	71	54	67.1	56.9	61.8	+ 4.3	139	0	1.33	-	39.8†	-	43†	-
4. MIDLAND COUNTIES	Rothamsted	70	47	66.9	53.4	59.8	+ 2.9	125	0	0.79	+ 0.22	35.9	- 1.1	39	- 2
	Harrogate	68	45	64.7	50.9	57.5	+ 2.0	109	0	0.17	- 0.48	36.0	-	38	-
	Bawtry (Hesley Hall)	73	40	68.4	51.6	59.6	+ 2.8	123	0	0.06	- 0.43	*	*	*	*
	Loughborough	75	43	69.3	52.0	60.2	+ 2.4	127	0	0.07	- 0.49	*	*	*	*
	Colly Weston (Stamford)	73	47	69.0	52.6	60.4	+ 2.5	129	0	0.37	- 0.18	*	*	*	*
	Cheadle	68	47	64.1	51.7	57.6	+ 2.4	109	0	0.23	- 0.50	*	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	70	50	66.2	53.8	59.7	+ 2.8	124	0	0.26	- 0.36	39.3	-	42	-
	Churchstoke	71	40	65.4	50.1	57.4	+ 2.0	108	0	0.96	+ 0.36	40.2	+ 5.7	43	+ 6
	Hereford	70	43	67.0	52.2	59.2	+ 2.0	120	0	0.11	- 0.45	*	*	*	*
	Cirencester	71	44	66.1	51.4	58.4	+ 2.2	115	0	0.78	+ 0.10	36.8	+ 1.5	40	+ 1
	Oxford	73	47	67.4	54.4	60.6	+ 2.5	130	0	0.47	- 0.07	35.9	- 0.9	39	- 1
	London	72	52	70.3	56.1	62.9	+ 3.6	146	0	0.62	+ 0.11	31.5†	- 1.8†	34†	- 2†
6. SCOTLAND, W.	Swarraton (Alresford)	70	47	66.7	53.9	60.0	+ 3.4	126	0	0.91	+ 0.26	*	*	*	*
	Dungeness	68	55	67.3	58.1	62.5	+ 3.1	144	0	0.50	- 0.02	31.5	-	34	-
	Hastings (St. Leonards)	67	53	64.5	57.1	60.6	+ 1.2	130	0	2.91	+ 2.31	31.4	- 11.1	34	- 12
	Southampton	72	50	69.4	56.4	62.6	+ 2.9	144	0	0.64	+ 0.01	38.4	- 2.4	41	- 3
	Portland Bill	65	54	64.6	58.0	61.1	+ 1.8	134	0	2.06	-	*	*	*	*
	Shaftesbury	70	45	65.7	52.7	58.9	+ 1.7	118	0	0.40	- 0.33	*	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	66	43	62.9	51.7	57.0	+ 2.2	105	0	3.58	+ 2.08	*	*	*	*
	Glasgow	67	47	61.7	51.0	56.1	+ 1.9	99	0	1.41	+ 0.54	10.3	- 14.4	11	- 16
	Cally	66	40	62.4	49.5	55.6	+ 1.3	95	0	2.08	+ 1.04	*	*	*	*
	Douglas (Isle of Man)	65	43	61.8	50.3	55.8	+ 0.3	97	0	1.99	+ 1.15	21.9	- 13.5	23	- 15
	Newton Reigny	68	40	64.0	48.4	55.8	+ 1.4	97	0	0.74	-	21.2	-	23	-
	Stonyhurst	70	46	64.6	52.0	58.0	+ 2.4	112	0	0.10	- 1.04	38.5	+ 7.9	41	+ 8
8. ENGLAND, S.W.	Blackpool	71	49	65.8	52.8	59.0	+ 2.5	119	0	0.11	- 0.69	40.8	+ 9.8	43	+ 10
	Manchester (Prestwich)	70	41	66.1	50.2	57.8	+ 1.8	111	0	0.27	- 0.59	32.6	-	35	-
	Liverpool Obsy. (Bidston)	69	49	64.1	54.0	58.8	+ 1.4	118	0	0.05	- 0.65	32.0	-	34	-
	Chester	71	43	68.6	52.3	60.1	+ 2.3	127	0	1.02	-	*	*	*	*
	Llandudno	74	50	65.5	54.1	59.5	+ 1.4	123	0	0.52	- 0.14	36.5	+ 4.5	39	+ 5
	Holyhead	65	52	63.7	55.3	59.3	+ 1.8	121	0	1.20	+ 0.50	*	*	*	*
9. IRELAND, N.	Llandovery	69	36	66.6	51.6	58.7	+ 2.2	117	0	0.55	- 0.49	*	*	*	*
	Pembroke	63	52	61.9	55.4	58.5	+ 0.9	116	0	1.16	+ 0.44	39.9	+ 1.9	43	+ 2
	Clifton	71	48	67.0	55.4	60.9	+ 2.3	132	0	1.48	- 0.29	*	*	*	*
	Bath	72	42	67.1	53.6	60.0	+ 1.5	126	0	0.37	- 0.30	35.3	-	38	-
	Arlington (N. Devon)	67	43	65.1	50.7	57.6	+ 1.3	109	0	0.50	- 0.64	*	*	*	*
	Cullompton	73	41	67.4	52.2	59.4	+ 1.1	122	0	0.35	- 0.36	34.9	- 1.6	38	- 2
10. IRELAND, S.	Falmouth	68	53	65.9	55.5	60.5	+ 2.2	130	0	0.95	+ 0.06	40.2	- 1.2	44	- 1
	Plymouth	68	49	64.8	55.1	59.7	+ 0.8	124	0	0.52	- 0.22	39.0	- 0.4	42	- 0
	Malin Head	68	49	62.1	52.3	57.0	+ 1.3	105	0	2.34	+ 1.61	*	*	*	*
	Edenfel (Omagh)	68	41	65.0	49.4	56.8	+ 2.7	104	0	1.48	+ 0.64	*	*	*	*
	Blacksod Point	63	48	62.1	53.7	57.7	+ 1.3	110	0	1.66	+ 0.64	*	*	*	*
	Markree Castle	68	35	66.0	46.7	55.9	+ 1.2	97	0	1.22	+ 0.32	38.9	+ 12.2	41	+ 13
CHANNEL ISLANDS	Armagh	69	39	65.7	48.7	56.8	+ 1.9	104	0	1.68	+ 1.00	32.9	+ 5.3	35	+ 5
	Donaghadee	65	45	64.0	49.9	56.6	+ 1.1	102	0	1.90	+ 1.23	*	*	*	*
	Dublin	68	49	65.4	52.7	58.8	+ 1.5	118	0	2.34	+ 1.78	22.6	- 12.1	24	- 13
	Parsonstown	70	47	67.3	50.9	58.7	+ 2.9	117	0	1.07	+ 0.33	43.3	+ 12.7	47	+ 14
	Kilkenny	68	46	66.6	51.3	58.6	+ 2.2	116	0	2.31	+ 1.64	*	*	*	*
	Roche's Point	67	51	64.6	52.7	58.4	+ 1.0	115	0	1.24	+ 0.40	*	*	*	*
CHANNEL ISLANDS	Valencia	65	45	63.6	52.7	57.9	+ 0.5	111	0	0.32	- 0.71	48.7	+ 16.2	52	+ 17
	Killarney	72	49	69.0	53.3	60.8	+ 3.9	132	0	0.35	- 0.60	*	*	*	*
	Foynes	-	-	-	-	-	-	-	-	-	-	*	*	*	*
	Scilly (St. Mary's)	67	57	65.0	57.6	61.1	+ 1.7	134	0	1.00	+ 0.33	40.6	-	44	-
	Jersey	70	52	69.0	57.3	62.9	+ 1.6	146	0	0.51	- 0.14	45.3	- 2.2	49	- 4

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Records are in use.

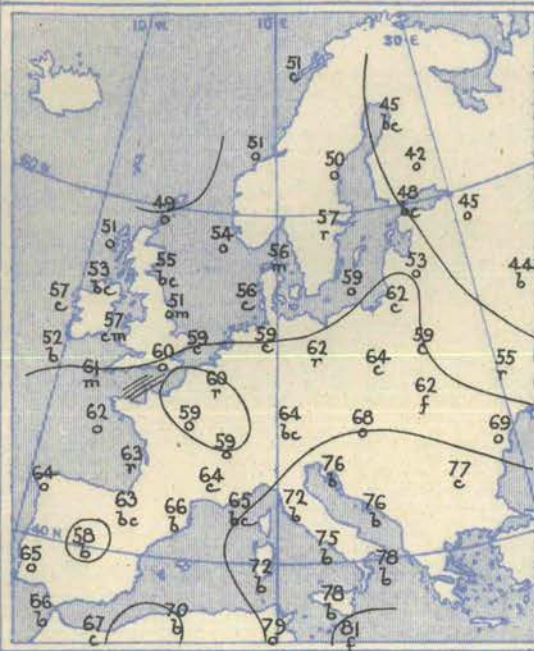
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 31st August.

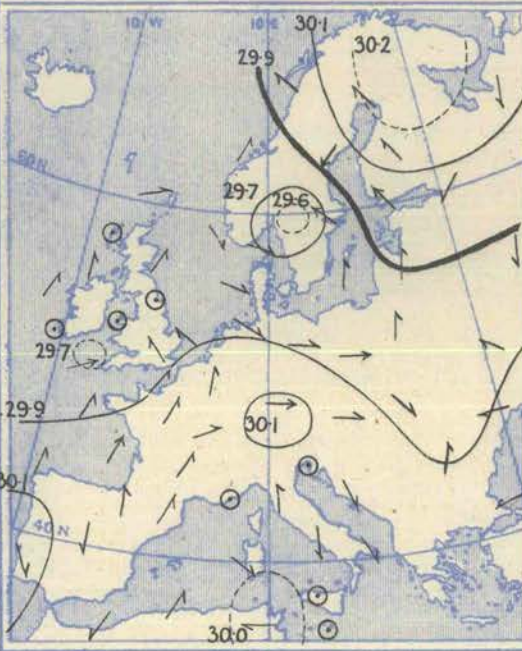
Temperature and Weather.

8 a.m.

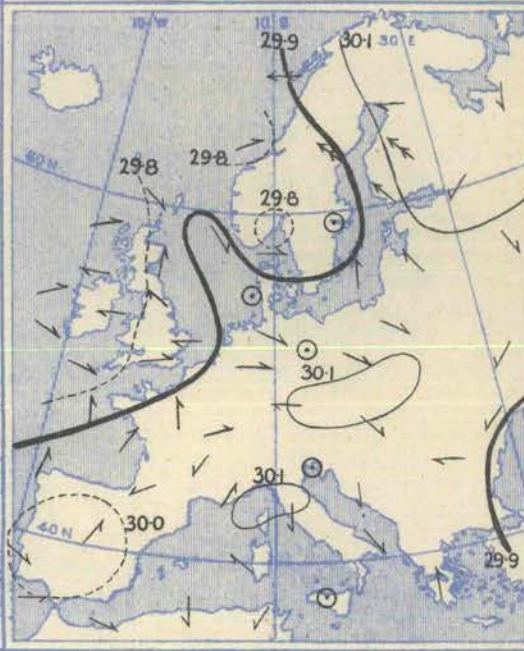


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright on the shores of the Mediterranean and over southern Europe generally, cloudy or dull elsewhere. Raining over the south of England, at several French stations, at Brussels, Berlin, Stockholm, and Kief. Rain falling very generally later over the northern half of Europe, the amounts being rather heavy in London, several parts of France, and at Hernösand.

Temperature at 8 a.m. highest, 81° at Malta, 79° at Tunis, 77° at Hermanstadt, 76° at Trieste and Lesina, and 72° at Constantinople. Lowest, 42° at Kuopio, 44° at Moscow, 49° in the Shetlands, and 52° and 53° respectively over central Ireland and central England. Subsequent maximum readings as high as 90° at Patras, 97° at Athens, 93° at Tunis and Rome, and above 80° in nearly all the more southern regions. Below 65° in most parts of our Islands, and below 50° in the Shetlands.

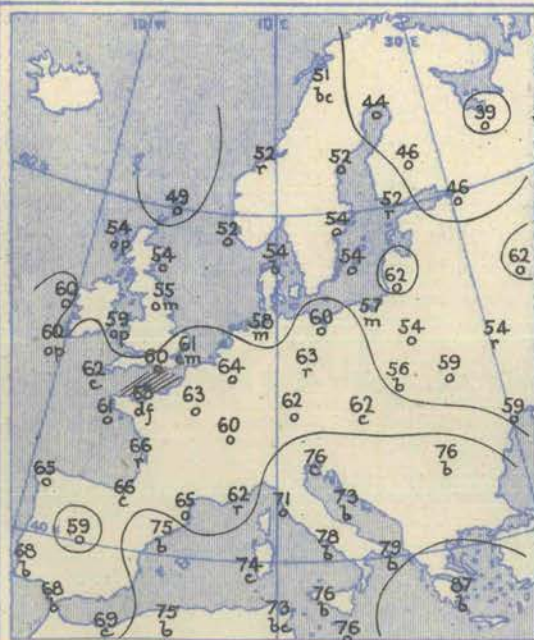
Wind at 8 a.m. light and very variable over all the more southern countries. Two complete cyclonic movements shown,—one around the south of Sweden, and the other around the Bristol Channel. Light in force generally, but Easterly winds over the Gulf of Bothnia strong. Both of the above circulations becoming much less well marked by evening, but wind reported to be blowing a gale from South-East and East at Hernösand and Bodö.

Barometer at 8 a.m. highest, 30.2 ins. and upwards, over Lapland; above 30.1 ins. over the south-west of Spain and Portugal, and Morocco, as well as in the neighbourhood of Munich. Lowest, 29.8 ins. and less in a disturbance over the south of Sweden; less than 29.7 ins. in another system over the Bristol Channel. Southern high pressure giving way later, but barometer rising over the greater part of Europe. Swedish depression becoming complex, but less deep, and that over our south-west coasts apparently moving east-north-eastwards.

Monday, 1st September.

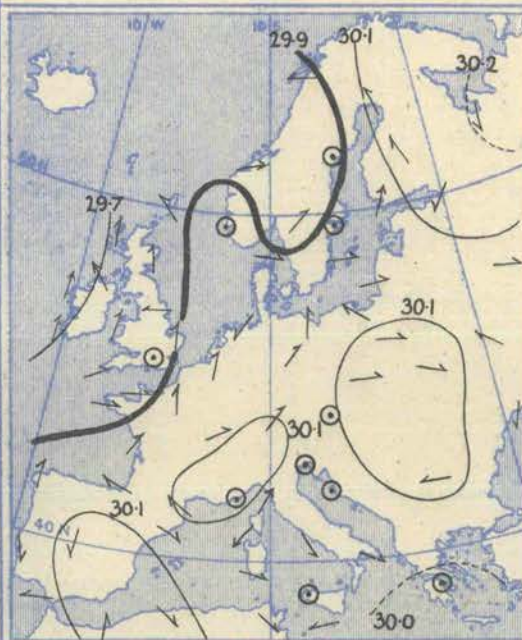
Temperature and Weather.

8 a.m.

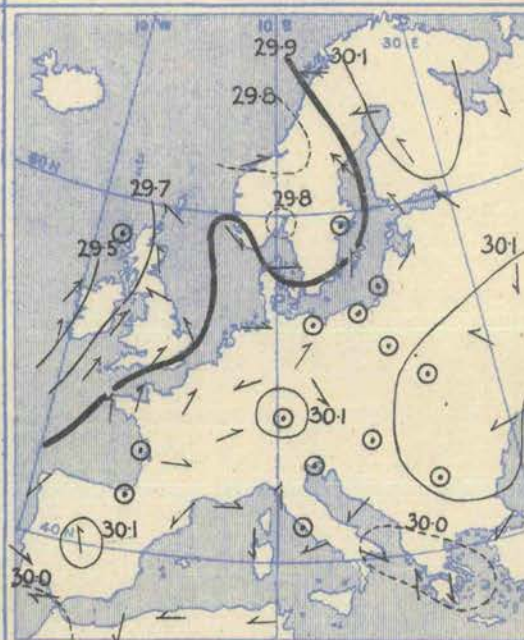


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but fine and bright in some extreme southern and south-eastern regions. Showers falling on parts of our own western coasts, steady rain at Christiansund and in the Gulf of Finland, and also at Kief and Nice. Rain later at some of our southern and most western stations, and in various parts of the Continent—as much as 0.9 in. at Vienna, and 0.7 in. at Turin.

Temperature changed rather irregularly, but risen in most places. Readings at 8 a.m. ranging from 87° at Athens, 79° at Brindisi, 76° at Trieste, and from 70° or above, in most southern districts, to 64° in London, 62° at Moscow, 43° at Uleaborg, and to 39° at Archangel. Rising later to rather more than 70° over Germany, Belgium, and the south-eastern and central counties of England, to between 80° and 90° over Austria-Hungary, Italy, and southern Europe generally, to 95° at Brindisi, 99° at Patras, and 102° at Athens. Maxima less than 60° in the extreme north of Scotland.

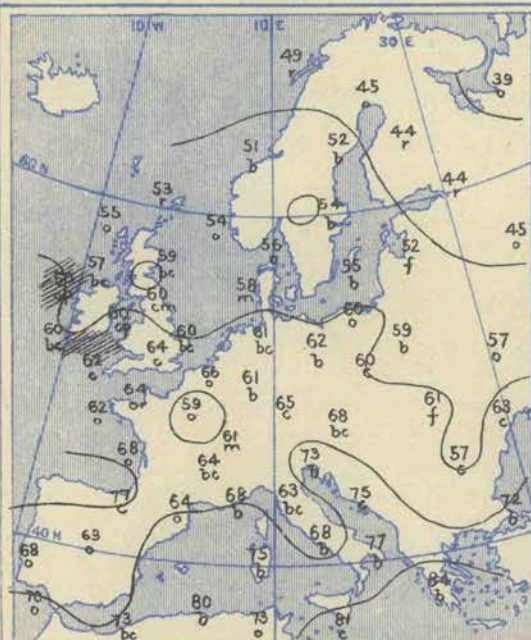
Wind in morning light or moderate, from between South-East and South-West, over the more northern countries, and from some Northerly point in the south. Southerly wind increasing considerably in the west of our Islands during afternoon; a South-Easterly gale setting in at Hernösand, and an Easterly gale at Bodö.

Barometer at 8 a.m. highest, 30.2 ins. and upwards, over the north-east of Russia, and 30.1 ins. to 30.1 ins. and above over the greater portion of Continental Europe. Lowest, 29.8 ins. in a depression off the west coast of Ireland. Barometer falling decidedly in latter district by evening, and gradients for Southerly winds increasing quickly. Depressions developing in different parts of Scandinavia. Pressure giving way over the north-east of Russia.

Tuesday, 2nd September.

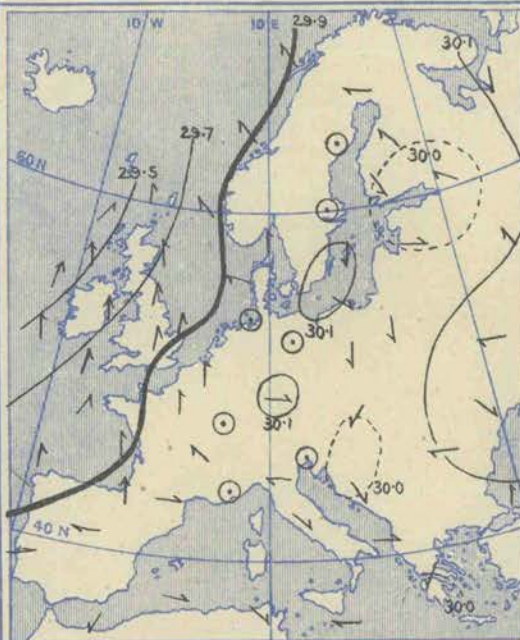
Temperature and Weather.

8 a.m.

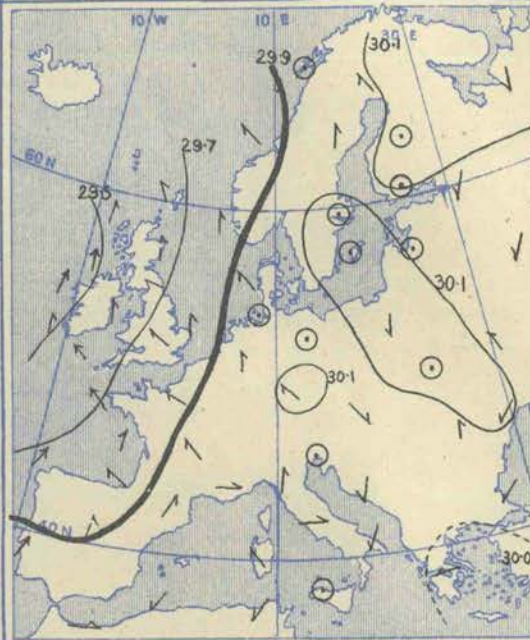


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright on the shores of the Mediterranean and over south-eastern Europe. Rather variable elsewhere, but mostly cloudy or dull. Rainy at Kuopio, St. Petersburg, Bodö, Sunburgh Head, in Normandy, and Vienna, and showery at Blacksod Point and Holyhead. Very heavy rain falling at Hastings and on our western and north-western coasts later, and small amounts over our Islands generally. Some rain also experienced in some parts of Russia and over the Netherlands.

Temperature at 8 a.m. highest, 84° at Malta, 80° at Algiers, and above 70° at most Mediterranean and Adriatic stations. Lowest, 39° at Archangel, 44° at St. Petersburg, 45° at Moscow, 49° at Bodö, and 53° in the Shetlands. Rising subsequently to 70° or above, at Parsonstown, and over central and eastern England, to about 80° in some parts of Germany and Austria, to between 80° and 90° over France and Italy, 95° at Patras, and to 97° at Aumale. Succeeding night very warm over our Islands.

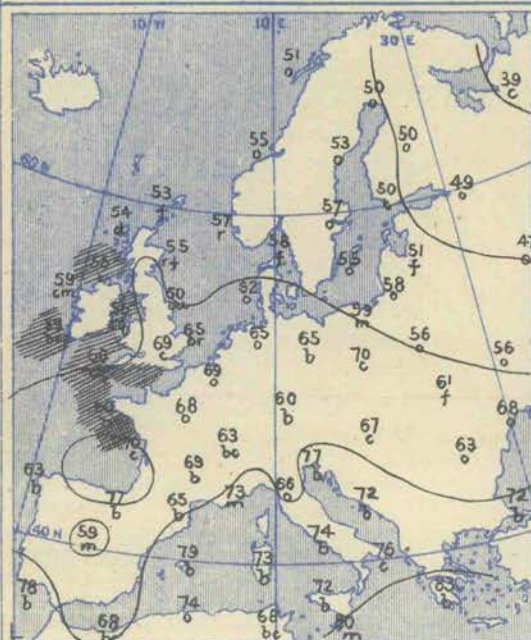
Wind in morning Southerly or South-Easterly over the United Kingdom, and the entire Atlantic seaboard of Europe; light or moderate generally, but strong at some of our western stations. Very light and variable over our area as a whole. No important change up to 6 p.m., but wind afterwards increasing greatly from the Southward, on our south-west coasts, and attaining the force of a strong gale.

Barometer at 8 a.m. highest, 30.2 ins. over south and Little Russia, and above 30.1 ins. over the Baltic and Bavaria. Lowest, 29.5 ins. and less off our extreme north-west coasts; below 30.0 ins. in two shallow low pressure areas—one over the Gulf of Finland and the Baltic Provinces, and the other over Dalmatia and Bosnia. The Russian high pressure, and the two shallow low pressure areas, dispersing later; barometer falling rather decidedly during evening on our south-west coasts, and very quickly during night.

Wednesday, 3rd September.

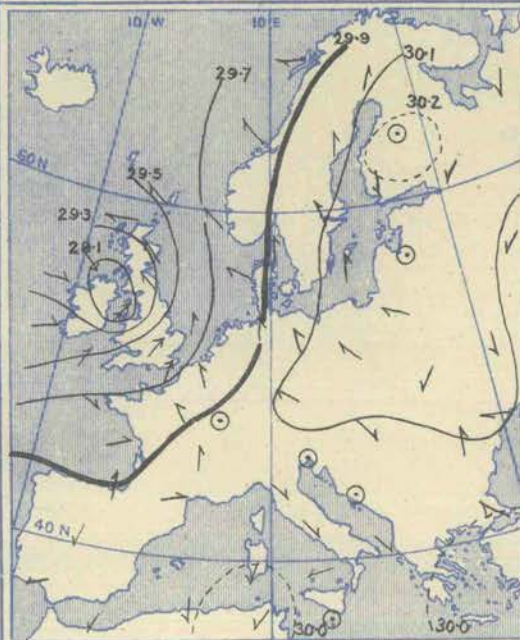
Temperature and Weather.

8 a.m.

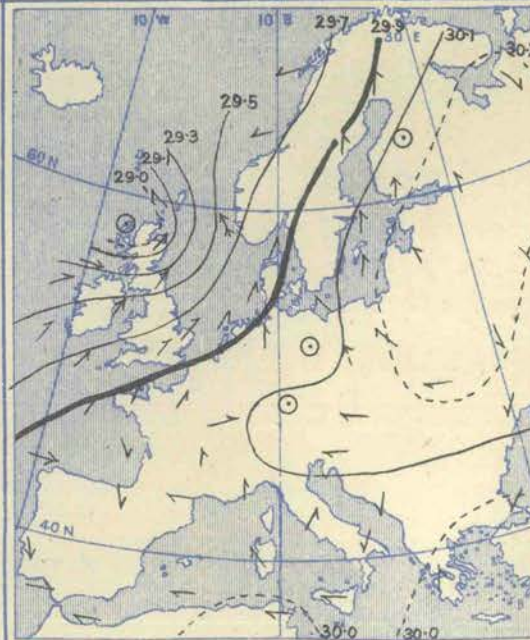


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine and bright in most southern countries; cloudy or dull elsewhere, and very squally and rainy over the north and north-west of our Islands. Rain falling later in the west and north of the United Kingdom, in Scandinavia, and at some French stations. Thunderstorms occurring at Fano and Cuxhaven, and also in the Hebrides.

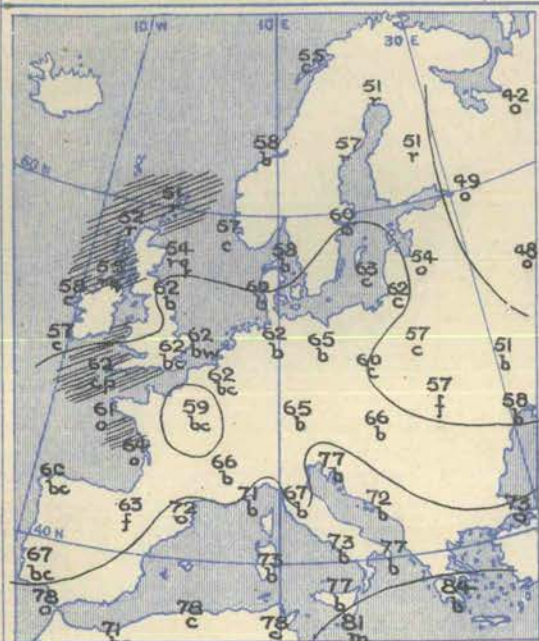
Temperature at 8 a.m. highest, 83° at Athens, 80° at Malta, 79° at Palermo, 78° at San Fernando, and 77° at Biarritz, Trieste, and Leghorn; as high as 69° in London. Lowest, 39° at Archangel, 47° at Moscow, 51° at Bodö, and 53° at Sunburgh Head and Parsonstown. Maxima during day a few degrees above or a few degrees below 70° at many English stations, to above 80° over Germany, central and southern Europe generally, to 95° at Tunis, 96° at Pesaro, and 99° at Athens.

Wind at 8 a.m. showing a circulation around the north-west of our Islands, the South-Westerly current over the Irish Sea being strong to a gale. Light and variable over the eastern and southern portions of our area. Wind veering to the south-westward over the north of our Islands later, and blowing a fresh or strong gale in many places, and increasing to a strong breeze from South-South-East in the south-west of Norway. Very little change elsewhere. Barometer in morning highest, above 30.2 ins. over Finland, and above 30.1 ins. over central Europe and nearly the whole of Russia. Lowest, about 29.0 ins. in a deep disturbance over our north-west coasts, with its centre over the North Channel. High pressure area increasing considerably in size during day, and cyclonic disturbance moving northwards to the Hebrides, and apparently increasing somewhat in depth. Pressure scarcely changing over southern Europe, rising quickly over our Islands.

Thursday, 4th September.

Temperature and Weather.

8 a.m.

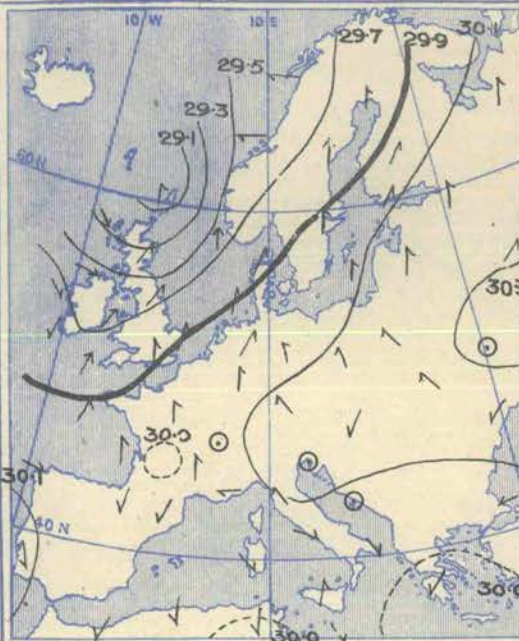


Weather in morning dull and rainy over Scotland, the north of Sweden, and at Kuopio; fine in most other places, but showery at Scilly, and foggy at Biarritz and Leghorn. Rain falling later over our own western and northern districts, the greater portions of France, Germany, Scandinavia, Finland, and northern Russia. Amount as much as 2.2 ins. at Limoges and 1.6 ins. at Chasseron.

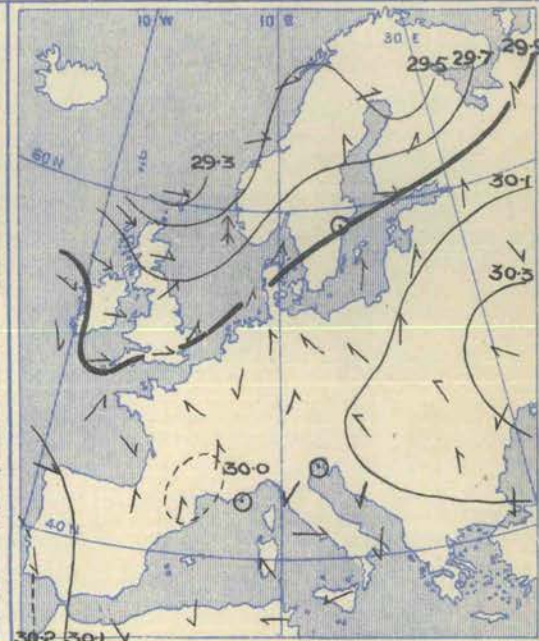
Temperature fallen somewhat in most places. Readings at 8 a.m. ranging from 84° at Athens, 81° at Malta, 78° at San Fernando, and 77° at Trieste, to 68° at Frankfurt, 62° in London and at Cuxhaven, to 49° at St. Petersburg, 48° at Moscow, and 42° at Archangel. Subsequently rising to 70° over our southern and south-eastern counties, and to 72° in London, to above 80° over Germany, the south of France, Austria and Italy, to 90° at Tunis, and to 100° at Aumale. Not touching 60° on our own north and north-east coasts.

Barometer and Wind.

8 a.m.



6 p.m.



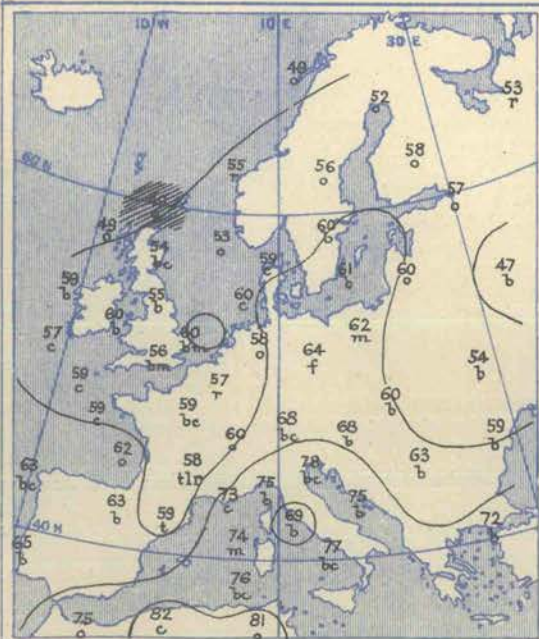
Wind in morning North-Westerly on our extreme western coasts, and strong in the Hebrides and at Malin Head; South-Westerly to Southerly over the other portions of the Kingdom and over the neighbouring parts of the Continent, and drawing into East in the north-west of Norway. Light and variable over the eastern and southern countries. Wind veering over our Islands later, and increasing to a strong breeze in Scotland; South-Westerly and Southerly wind increasing in force over Scandinavia, and blowing a gale at Skudesnaes.

Barometer at 8 a.m. highest, 30.2 ins. to 30.3 ins. over Russia; above 30.1 ins. in Portugal. Lowest, about 29.0 ins. in a depression lying between the Shetland and Farøe Isles. Below 29.7 ins. in a secondary system over Ireland, and below 30.0 ins. in a shallow disturbance over France. Northern depression moving north-eastwards later and becoming less deep, and Irish secondary moving south eastwards to the south-west of England.

Friday, 5th September.

Temperature and Weather.

8 a.m.

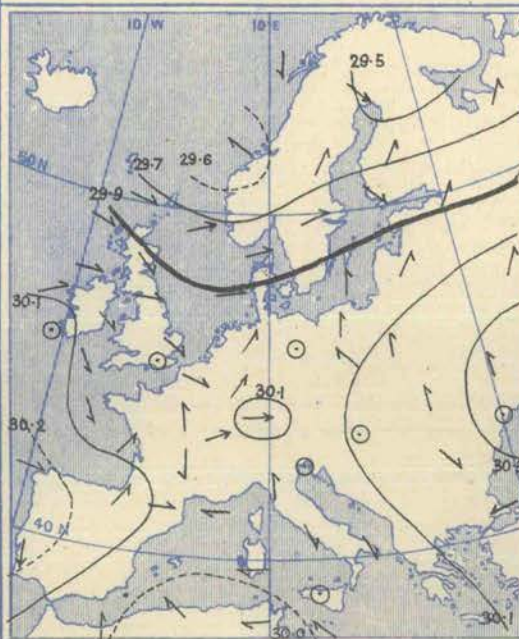


Weather in morning fine in most places, but dull at most Scandinavian stations, over the Netherlands, and the west of Germany, and in some French localities; rainy at Christiansund, Brussels and Frankfurt, and a thunderstorm at Lyons. Rain falling later in the west and north of our Islands, and in many other parts of north-western Europe, as well as in Russia and at Turin. Thunderstorms prevailing in the east and south of France.

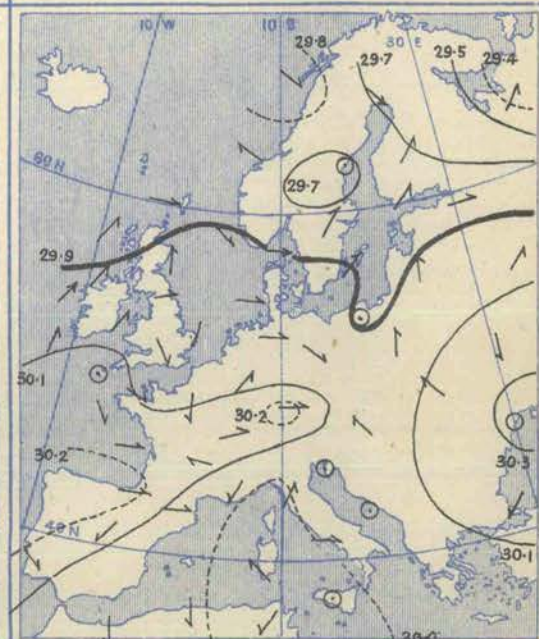
Temperature at 8 a.m. highest, 82° at Algiers, 81° at Tunis, 80° at Malta, 78° at Trieste, and above 70° in most southern regions. Lowest, 47° at Moscow and Kharkof, 49° at Bodø, Sumburgh Head, and Stornoway, 54° at Loughborough, 55° at Parsonstown, and 57° at Limoges. Maxima during day, 70° over central England, above 70° in most parts of France and Germany, between 80° and 90° in Austria-Hungary and Italy, and 91° at Tunis. Only rising to 64° at Lyons, and 67° at Paris.

Barometer and Wind.

8 a.m.



6 p.m.



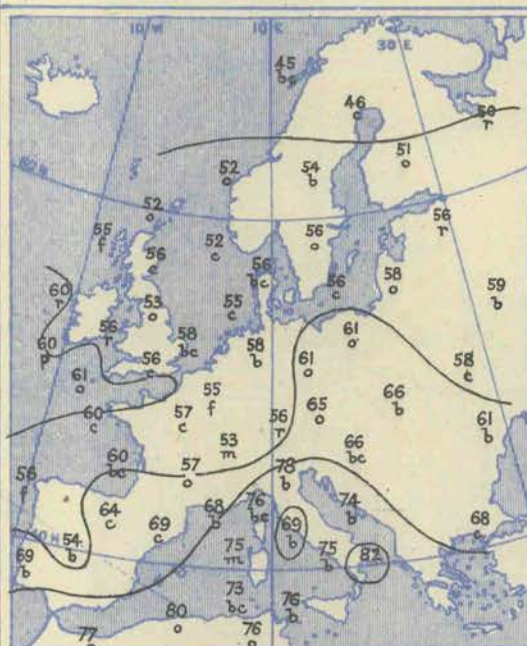
Wind in morning light and variable over the southern countries, light from the North-Westward over the United Kingdom, from the Westward or South-Westward over Germany and Denmark, fresh from South-West in the south of Norway, and light from South-East at Christiansund. Fresh and strong North-Westerly or Northerly winds in Lapland, and light anticyclonic airs over the south-east of Europe. Wind backing to the South-Westward over our Islands later, and increasing in force in the west. No important or general change elsewhere.

Barometer at 8 a.m. highest, 30.3 ins. and upwards in an anticyclone over the south of Russia, and nearly as high over Portugal and the west of Spain; above 30.1 ins. over Bavaria. Lowest, 29.5 ins. and less in a depression over Lapland, and about 29.5 ins. in another system off the west of Norway. Both northern low pressure systems moving eastwards during day; barometer falling steadily along our own western coasts, rising at our southern stations and over France.

Saturday, 6th September.

Temperature and Weather.

8 a.m.

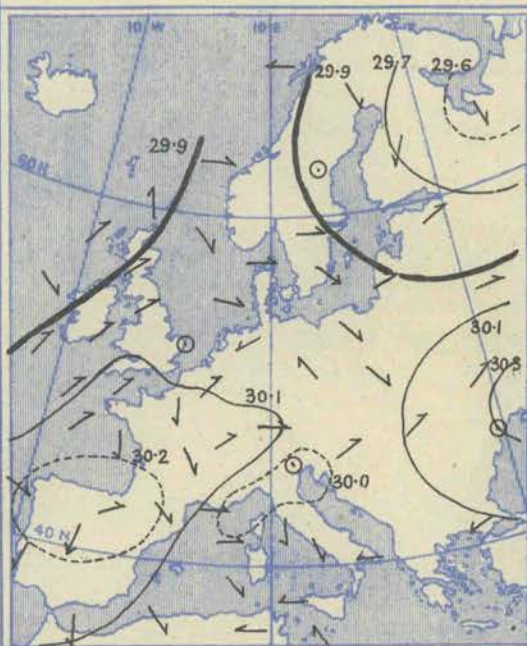


Weather in morning continuing fine in most places, but cloudy or dull and rainy at some of our western stations, and at Leith. Rain also falling at Frankfurt, St. Petersburg, and Archangel, and fog prevailing at Corunna and Brussels. Rain falling later at a few French, Scandinavian, and Russian stations, and at several of our own western and northern stations, and as much as 1.8 ins. locally, at Portland Bill. Heavy rain also occurring at Berlin, Munich, and Prague.

Temperature risen over Ireland and Scotland, and in several localities over central Europe, fallen in most other places. Readings at 8 a.m. highest, 82° at Brindisi, 80° at Malta and Algiers, 78° at Trieste, and a little lower or slightly higher than 70° over the southern regions as a whole. Lowest, (1) 45° at Bodø and Uleaborg, 50° at Archangel; (2) 51° at Kharkof, 54° at Nicolaieff; (3) 50° over central England; (4) 51° at Paris, 53° at Belfort; (5) 54° at Madrid. Maxima during day 71° at Loughborough, 72° in London, 70° at Paris and Biarritz, 82° at Nice, 89° at Palermo, and 91° at Patras and Tunis.

Barometer and Wind.

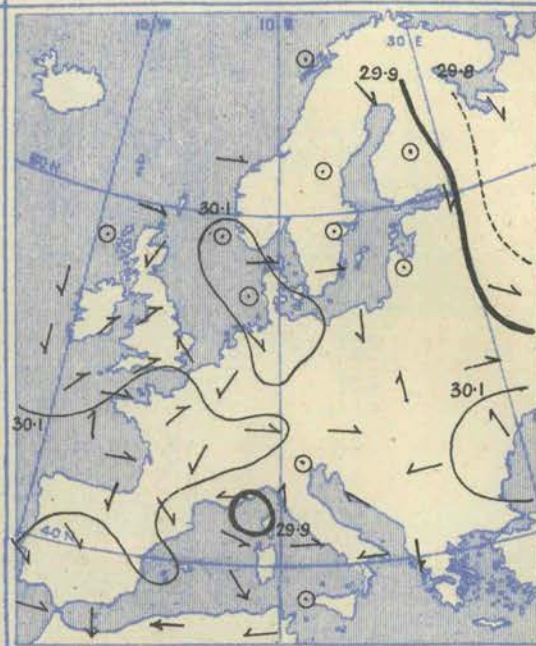
8 a.m.



Wind in morning light from some Southerly point over the greater part of the United Kingdom, and light to fresh from North-West or West over northern Europe; light and variable in most other regions, but an irregular cyclonic movement prevailing over northern Italy and the Riviera. Veering to the Northward on the west coast of Ireland later, and increasing somewhat in force. Very little change elsewhere.

Barometer at 8 a.m. ranging from 30.2 ins. and upwards in two anticyclonic areas, shown respectively over southern Russian and the north of Spain, to 30.0 ins. in a complex disturbance over the northern parts of Italy, to less than 29.9 ins. over our own north-western and northern districts, and to 29.6 in. and less, in the neighbourhood of Archangel. Shallow depressions appearing over Ireland by evening; pressure decreasing steadily within the anticyclonic areas.

6 p.m.



GENERAL NOTES.

The highest pressures during this week were generally found over south-eastern or north-eastern Europe, but the barometer was at times equally high over the central countries and the Spanish Peninsula. The cyclonic systems were mostly confined to the western and north-western regions, those appearing elsewhere being of a shallow and ill-defined character. The deepest depression, and consequently that which had most effect on the force of the wind, passed northwards over the United Kingdom between Tuesday evening and Thursday morning. On the former date it was shallow, and lay somewhere to the south-westward of the Land's End, but during the night it suddenly increased in depth and moved northwards over the St. George's Channel and Irish Sea, subsequently northwards to the Hebrides, and finally north-eastwards

and eastwards to Scandinavia. During its passage towards the Norwegian coast it decreased much in depth, and the fresh or strong gales which had attended it while over our Islands quickly subsided. The general state of the weather over the north-western countries was unsettled and rain frequent; the latter was extremely heavy in Ireland during the passage northwards of the cyclonic disturbance just noticed (nearly 3 inches in some parts of County Wicklow). Unusually heavy rain was also experienced on Saturday over Germany, and at Portland Bill. Over southern Europe the weather was fine and warm, but thunderstorms and heavy rain were occasionally reported from Spain and the more southern parts of France.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 212.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	22.8	- 2.9	24	- 3	WORKSOP	38.4	+ 8.7	41	+ 9	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	26.4	- 0.9	28	- 1	THURCASTON	48.0	+ 16.0	52	+ 17	SOUTHPORT	38.5	—	41	—
EDINBURGH	9.7	- 17.3	10	- 19	MARGATE	24.5	- 12.9	26	- 14	RHYL	—	—	—	—
MORPETH	28.3	—	30	—	BROADSTAIRS	28.3	—	30	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	21.9	—	23	—	EASTBOURNE	38.8	- 8.2	36	- 9	ABERDOVEY	42.8†	—	46†	—
YORK	37.6	+ 7.9	40	+ 8	BRIGHTON	33.1	- 9.6	36	- 11	TENBY	30.9	- 1.3	40	- 2
CROMER	42.4	—	46	—	WORTHING	35.1	—	38	—	NEWQUAY	37.7	- 3.2	41	- 3
LOWESTOFT	36.4	—	39	—	BOGNOR	39.4†	—	42†	—	TORQUAY	32.8	- 8.5	36	- 9
DUNMOW	31.2	—	34	—	WATERGATE	29.9	—	32	—	GUERNSEY	42.2†	- 4.5	46	- 5
HOLLESLEY BAY	35.2	—	38	—	WESTBOURNE	32.9†	- 8.7	35†	- 10					
SHEFFIELD	44.0	—	47	—	VENTNOR HOSPITAL	39.6	- 3.4	43	- 4					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 37.]
Fourth Series.

WEEK ENDING SATURDAY, SEPTEMBER 13TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 218.)		Temperature of the Air.													
		Observed during the Week.						Accumulated.							
		Highest.	Lowest	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	34	56.8	44.4	50.3	2 below	Day-deg. 58	Day-deg. -11	Day-deg. 0	Day-deg. -1	Day-deg. 1395	Day-deg. -233	Day-deg. 660	Day-deg. +88
	1. SCOTLAND, EAST	76	33	59.2	43.2	50.8	2 below	62	-15	0	-1	1572	-374	727	+108
	2. ENGLAND, N.E.	72	35	60.3	47.2	53.4	2 below	80	-10	0	0	1924	-185	522	+13
	3. ENGLAND, EAST	73	38	63.4	49.2	56.0	1 below	98	-4	0	0	2302	-137	516	-41
	4. MIDLAND COUNTIES	75	33	62.0	46.6	53.9	2 below	83	-12	0	0	2213	-204	523	-43
5. ENGLAND, SOUTH	73	39	64.4	50.9	57.3	1 below	107	-5	0	0	2416	-233	358	-55	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	31	61.1	45.5	52.9	1 below	76	-6	0	0	1856	-194	483	+60
	7. ENGLAND, N.W.	72	31	61.5	48.1	54.5	1 below	88	-6	0	0	2052	-192	421	+6
	8. ENGLAND, S.W.	74	32	63.8	50.9	57.0	0 (average)	105	+2	0	0	2357	-117	324	+6
	9. IRELAND, NORTH	70	35	59.9	49.1	54.2	0 (average)	85	-2	0	0	1911	-261	339	-28
	10. IRELAND, SOUTH	74	34	62.9	49.8	56.0	0 (average)	98	+3	0	0	2351	-112	240	-28
	- CHANNEL ISLANDS	71	54	64.8	57.0	60.7	1 above	131	+8	0	0	2766	-50	99	-24

DISTRICTS. (See p. 218.)		Rainfall.								Bright Sunshine.							
		For the Week.				From December 29th, 1901.				For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.		No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 2	10ths of in. 8 less		180	+22	Ins. 31.2	Ins. -1.2	25	+1	27	+1	904	-30	26	-1
	1. SCOTLAND, EAST	3	2	5 less		149	+14	17.5	-3.6	27	0	30	0	948	-123	27	-4
	2. ENGLAND, N.E.	2	2	3 less		128	+4	15.3	-1.6	28	-1	31	-1	1026	-33	30	-1
	3. ENGLAND, EAST	4	9	4 more		128	+3	17.3	+0.6	39	+3	43	+3	1284	-54	36	-2
	4. MIDLAND COUNTIES	5	9	4 more		125	+5	17.3	-1.5	33	+4	37	+5	1075	-32	33	-1
5. ENGLAND, SOUTH	3	6	1 less		124	+8	18.2	0.0	38	-1	42	-1	1287	-91	37	-3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	10 less		158	+17	33.0	0.0	29	0	32	0	1050	-70	31	-2
	7. ENGLAND, N.W.	4	3	6 less		150	+19	19.1	-3.4	33	+6	37	+6	1211	+31	36	+2
	8. ENGLAND, S.W.	4	8	1 less		136	+2	20.9	-5.2	37	+1	42	+1	1248	-111	37	-3
	9. IRELAND, NORTH	3	1	7 less		177	+21	24.9	+1.1	25	-2	27	-2	1011	-17	29	-1
	10. IRELAND, SOUTH	2	1	7 less		142	-1	23.0*	-4.2	31	-2	34	-2	1150	-17	34	-1
	- CHANNEL ISLANDS	4	5	2 less		139	+5	18.6	-1.8	38	-7	43	-8	1417	-153	42	-5

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was fine and dry over the whole Kingdom during the early part of the period, and this condition continued at some Irish stations throughout the week. Over our Islands as a whole however, the weather gradually fell into an unsettled state—at first in the south-west and south, and subsequently farther north. Much rain, accompanied in several places by thunder and lightning, was experienced over our southern and central counties on Wednesday and Thursday. On the former day a disastrous hailstorm occurred in Mid Kent.

Temperature was a little below the mean in most districts, but slightly above it in the Channel Islands, and just equal to it over Ireland and in England S.W. The highest of the maxima, recorded on Sunday or Monday, ranged from 76° in Scotland E., and 75° in Scotland W. and the Midland Counties, to 70° in Ireland N. At the end of the week the maxima were in nearly all cases below 60°, and at some eastern stations below 55°. The lowest of the minima were reported during the latter days of the period, and, as a rule, on Saturday. They varied from 31° in Scotland W. and England N.W., and from 35° or below in most other districts, to 39° in England S., and to 54° in the Channel Islands. Thermometers exposed on the grass at Fort William and Ochertyre fell to 28°.

Rainfall was considerably more than the mean in England E. and the Midland counties, but less elsewhere. Over all the more north-western and northern parts of the country the fall was very slight.

Bright Sunshine did not differ materially from the mean over the Kingdom as a whole. The percentage of the possible duration ranged from 43 in the Channel Islands and England E., 42 in England S. and S.W., to 27 in Scotland N. and Ireland N.

Barometer and Wind. During the earlier days of the period an anticyclonic area embraced the whole of the United Kingdom, and the winds were mainly Easterly in the south and Westerly in the north. By Tuesday, however, a shallow cyclonic system was approaching our south-west coasts from the South-Westward, and this disturbance, moving very slowly Northwards and Eastwards, caused the winds over our Islands to become at first Easterly and North-Easterly generally, and finally Northerly and North-Westerly. Towards the end of the period the highest pressure was transferred from the northern to our western coasts and baric minima had begun to arrive off the north of Scotland from the North-Westward.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°								
O. SCOTLAND, N.	Sumburgh Head	56	37	51.7	43.3	47.3	- 3.5	37	0	4	0.09	- 0.71	*	*	*	*	
	Stornoway	66	39	58.7	45.0	51.5	+ 0.1	67	0	4	0.19	- 0.76	29.0	+ 3.1	32	+ 3	
	Wick	69	38	55.7	43.7	49.4	- 2.7	52	0	6	0.65	+ 0.03	*	*	*	*	
	Lairg	72	37	61.4	42.8	51.7	+ 0.3	68	0	3	0.10	- 0.62	*	*	*	*	
	Glencarron	63	38	54.9	45.3	49.9	- 1.5	55	0	3	0.36	- 1.39	*	*	*	*	
	Fort Augustus	64	34	57.1	44.4	50.5	- 2.9	60	0	2	0.09	- 0.81	25.0	+ 6.2	28	+ 7	
1. SCOTLAND, E.	Fort William	62	39	58.2	46.6	52.1	- 1.5	71	0	3	0.06	- 1.57	21.2	- 1.3	23	- 2	
	Nairn	67	35	57.3	44.0	50.3	- 3.0	58	0	4	0.28	- 0.32	*	*	*	*	
	Aberdeen	64	39	56.3	44.3	50.0	- 3.1	56	0	4	0.13	- 0.53	33.7	+ 3.9	37	+ 4	
	Braemar	67	37	55.2	40.4	47.4	- 2.5	45	4	3	0.25	- 0.51	*	*	*	*	
	Ochertyre	76	33	63.7	41.4	52.0	- 1.3	73	2	1	0.01	- 0.81	*	*	*	*	
	Leith	72	38	63.7	46.1	54.5	- 0.7	88	0	2	0.11	- 0.41	*	*	*	*	
2. ENGLAND, N.E.	Marchmont	71	34	59.0	43.0	50.6	- 2.0	60	0	3	0.21	- 0.53	29.0	+ 1.2	32	+ 1	
	Alnwick Castle	67	39	58.8	45.5	51.8	- 1.7	69	0	1	0.07	- 0.55	*	*	*	*	
	Durham	72	37	60.7	45.9	52.9	- 1.5	76	0	2	0.10	- 0.42	24.2	- 4.1	27	- 5	
	Shields	66	38	58.9	48.1	53.2	- 1.1	78	0	1	0.11	- 0.41	*	*	*	*	
	Scarborough	65	39	59.4	46.0	52.4	- 3.1	73	0	3	0.16	- 0.41	24.0	-	27	-	
	Spurn Head	67	42	61.0	50.6	55.6	- 1.2	95	0	3	0.19	- 0.23	*	*	*	*	
3. ENGLAND, E.	Fulbeck (Lincolnshire)	72	35	63.1	46.9	54.6	- 1.4	88	0	4	0.50	- 0.00	*	*	*	*	
	Hillington	71	41	64.0	48.0	55.6	- 0.8	95	0	4	0.92	+ 0.32	34.8	+ 2.1	39	+ 2	
	Yarmouth	66	45	61.4	52.9	57.0	- 0.3	105	0	5	0.57	- 0.01	*	*	*	*	
	Geldeston	70	42	62.9	48.6	55.4	- 1.5	94	0	4	0.59	+ 0.05	35.2	- 2.3	39	- 3	
	Cambridge	73	38	66.0	47.6	56.4	- 0.9	101	0	3	0.46	- 0.01	40.5	+ 4.9	45	+ 5	
	Felixstowe	69	40	63.3	51.3	57.0	+ 0.3	105	0	4	2.34	-	46.8†	-	52†	-	
4. MIDLAND COUNTIES	Rothamsted	69	38	62.8	46.8	54.4	- 1.6	87	0	3	0.49	- 0.09	39.7	+ 5.3	44	+ 5	
	Harrogate	72	35	60.8	46.0	53.0	- 1.4	77	0	5	0.38	- 0.26	34.0	-	38	-	
	Bawtry (Hesley Hall)	75	35	62.1	47.4	54.4	- 1.3	87	0	5	0.47	- 0.02	*	*	*	*	
	Loughborough	71	35	62.4	46.3	54.0	- 2.8	84	0	4	0.75	+ 0.20	*	*	*	*	
	Colly Weston (Stamford)	72	37	62.4	48.4	55.1	- 1.7	92	0	6	1.30	+ 0.75	*	*	*	*	
	Cheadle	70	33	60.0	46.2	52.8	- 1.5	76	0	5	1.00	+ 0.29	*	*	*	*	
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	70	37	61.7	47.2	54.1	- 1.8	85	0	4	1.03	+ 0.44	23.7	-	26	-	
	Churchstoke	69	35	61.1	45.1	52.7	- 1.8	75	0	5	0.51	- 0.11	37.4	+ 4.4	42	+ 5	
	Hereford	71	35	62.6	45.5	53.6	- 2.6	81	0	4	1.86	+ 1.29	*	*	*	*	
	Cirencester	70	37	62.3	46.1	53.8	- 1.5	83	0	4	1.16	+ 0.49	38.3	+ 5.1	43	+ 6	
	Oxford	71	38	64.1	48.0	55.7	- 1.3	96	0	3	0.96	+ 0.42	37.2	+ 2.3	41	+ 2	
	London	72	41	66.4	50.0	57.8	- 0.6	111	0	3	1.33	+ 0.83	29.7†	- 1.3†	33†	- 2†	
6. SCOTLAND, W.	Swarraton (Alresford)	70	39	64.0	48.4	55.8	+ 0.1	97	0	4	0.40	- 0.26	*	*	*	*	
	Dungeness	68	41	65.0	52.0	58.2	- 0.3	113	0	2	0.02	- 0.54	44.0	-	49	-	
	Hastings (St. Leonards)	69	42	64.2	52.5	58.1	- 0.5	113	0	2	0.07	- 0.55	43.5	+ 3.0	48	+ 3	
	Southampton	73	42	66.2	51.2	58.3	- 0.3	114	0	4	0.63	- 0.02	35.9	- 2.5	40	- 3	
	Portland Bill	66	43	62.0	53.3	57.4	- 1.2	108	0	4	0.69	-	*	*	*	*	
	Shaftesbury	69	39	63.3	48.8	55.7	- 0.4	96	0	4	0.69	- 0.06	*	*	*	*	
7. ENGLAND, N.W.	Laudale (Loch Sunart)	65	40	59.4	46.5	52.6	- 1.4	74	0	4	0.23	- 1.36	*	*	*	*	
	Glasgow	64	35	58.2	45.5	51.6	- 1.8	67	0	1	0.01	- 0.86	28.4	+ 5.1	31	+ 5	
	Cally	75	31	65.7	42.9	53.8	+ 0.5	83	0	1	0.14	- 0.89	*	*	*	*	
	Douglas (Isle of Man)	67	36	60.9	46.9	53.6	- 0.6	81	0	2	0.11	- 0.72	29.1	- 5.0	32	- 6	
	Newton Reigny	72	31	61.3	43.6	52.0	- 1.4	70	0	2	0.08	-	31.5	-	35	-	
	Stonyhurst	69	39	60.0	47.1	53.2	- 1.6	78	0	4	0.37	- 0.77	34.5	+ 5.1	38	+ 6	
8. ENGLAND, S.W.	Blackpool	68	35	61.4	46.1	53.4	- 2.5	80	0	3	0.28	- 0.55	35.1	+ 5.6	39	+ 6	
	Manchester (Prestwich)	71	36	60.9	47.5	53.9	- 1.0	83	0	3	0.24	- 0.64	26.8	-	30	-	
	Liverpool Obsy. (Bidston)	67	41	60.4	49.7	54.8	- 1.7	90	0	4	0.47	- 0.24	25.3	-	28	-	
	Chester	72	46	64.1	47.6	55.5	- 1.6	95	0	5	0.24	-	*	*	*	*	
	Llandudno	69	48	63.7	50.9	57.0	- 0.2	105	0	4	0.32	- 0.36	36.8	+ 6.6	41	+ 7	
	Holyhead	65	47	60.0	52.4	56.0	- 0.8	98	0	3	0.11	- 0.59	*	*	*	*	
9. IRELAND, N.	Llandovery	74	33	64.1	46.3	54.8	- 0.9	90	0	5	0.48	- 0.55	*	*	*	*	
	Pembroke	68	46	62.0	53.0	57.3	+ 0.2	107	0	4	0.55	- 0.19	36.3	+ 0.5	40	0	
	Clifton	71	41	64.0	50.7	57.0	- 0.1	105	0	3	0.95	+ 0.18	*	*	*	*	
	Bath	71	39	65.0	49.4	56.8	- 0.7	104	0	3	0.60	- 0.08	29.4	-	33	-	
	Arlington (N. Devon)	70	37	63.6	47.7	55.3	- 0.1	93	0	4	0.92	- 0.21	*	*	*	*	
	Cullompton	71	41	65.2	50.2	57.3	- 0.3	107	0	4	0.66	- 0.07	34.3	- 0.4	38	- 1	
10. IRELAND, S.	Falmouth	65	49	62.3	55.5	58.7	+ 1.2	117	0	4	1.14	+ 0.20	42.9	+ 4.1	48	+ 5	
	Plymouth	68	46	64.4	54.0	59.0	+ 0.9	119	0	4	0.88	+ 0.12	38.8	+ 1.4	44	+ 2	
	Malin Head	63	47	57.7	50.4	53.9	- 1.2	83	0	3	0.10	- 0.63	*	*	*	*	
	Edenfel (Omagh)	69	40	61.1	48.6	54.6	+ 1.5	88	0	2	0.07	- 0.75	*	*	*	*	
	Blacksod Point	65	49	60.6	52.6	56.4	+ 0.6	101	0	3	0.16	- 0.79	*	*	*	*	
	Markree Castle	70	35	62.1	45.9	53.6	- 0.3	81	0	3	0.22	- 0.68	28.4	+ 2.8	32	+ 3	
CHANNEL ISLANDS	Armagh	68	37	60.1	47.3	53.4	- 0.5	80	0	3	0.03	- 0.63	20.5	- 6.8	23	- 8	
	Donaghadee	62	43	57.7	49.6	52.5	- 1.4	81	0	2	0.10	- 0.55	*	*	*	*	
	Dublin	65	42	60.2	49.6	54.7	- 1.6	89	0	2	0.03	- 0.50	27.1	- 6.9	30	- 8	
	Parsonstown	69	34	62.6	46.6	54.2	- 0.7	85	0	0	0.00	- 0.69	29.8	- 0.6	33	- 1	
	Kilkenny	70	39	62.6	49.4	55.7	+ 0.1	96	0	1	0.06	0.58	*	*	*	*	
	Roche's Point	66	45	61.7	52.4	56.8	0.0	104	0	3	0.09	- 0.74	*	*	*	*	
CHANNEL ISLANDS	Valencia	72	44	63.6	51.7	57.4	+ 0.5	108	0	4	0.13	- 0.87	34.5	+ 2.9	38	+ 3	
	Killarney	74	37	66.1	48.5	56.9	+ 0.8	104	0	3	0.11	- 0.80	*	*	*	*	
	Foynes	70	39	63.7	50.1	56.6	+ 0.9	102	0	0	0.00	- 0.73	*	*	*	*	
	Scilly (St. Mary's)	66	54	62.9	56.6	59.6	+ 0.7	123	0	2	0.51	- 0.20	41.1	-	46	-	
	Jersey	71	54	66.6	57.3	61.7	+ 0.8	138	0	5	0.45	- 0.24	36.8	- 7.9	41	- 10	

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

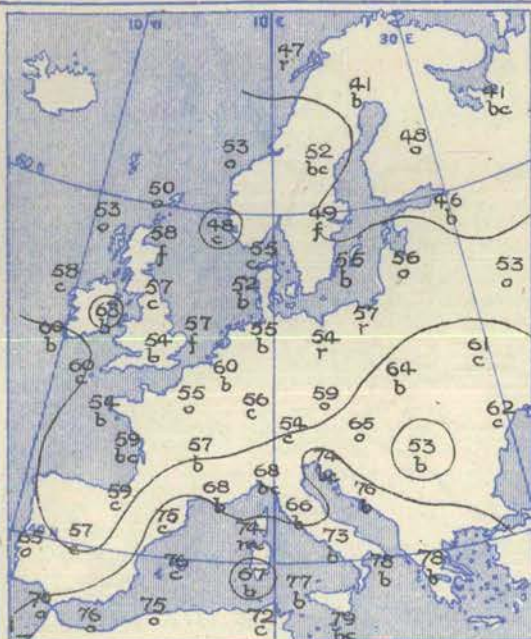
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 7th September.

Temperature and Weather.

8 a.m.

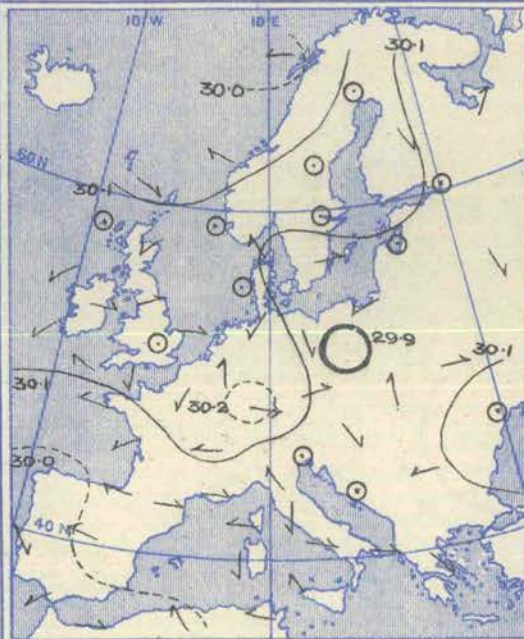


Weather in morning fair or fine over western, northern, and southern Europe as a whole, but foggy or misty in several places; dull in the extreme north and north-west of our Islands, and also in the west of Norway, with rain at Wick and at Bodø. Dull and rainy at most of the German stations. No important change occurring during day; heavy rain falling in some parts of north Germany—as much as 1.2 ins. at Neufahrwasser.

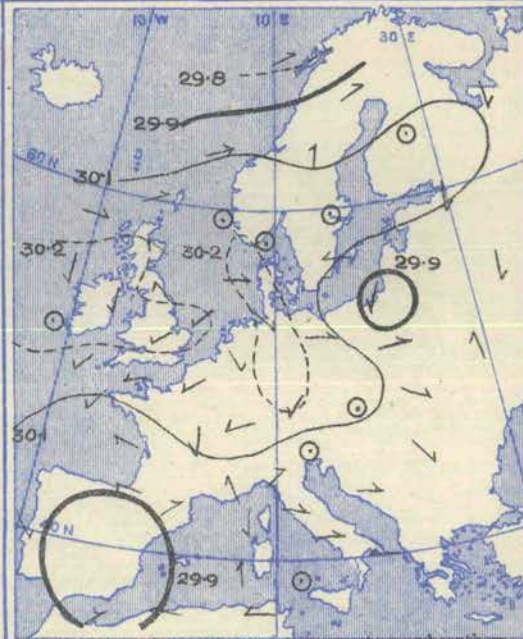
Temperature changed irregularly in our Islands, fallen at most of the Continental stations. Morning readings highest, 79° at Malta, 78° at Brindisi and Patras, and 77° at Palermo; above 70° at most of the Mediterranean and Adriatic stations. Lowest, 41° at Archangel and Haparanda, 43° at Uleaborg, and 46° at St. Petersburg; below 50° over central England, but above 60° on some parts of our western coasts. Rising during day to between 65° and 70° in most parts of the United Kingdom, to 71° in London and at Jersey, and to 72° at Leith. Exceeding 75° in the west of France, and exceeding 80° in many parts of southern Europe, the highest readings reported being 88° at Palermo, and 86° at Cagliari and Malta.

Barometer and Wind.

8 a.m.



6 p.m.



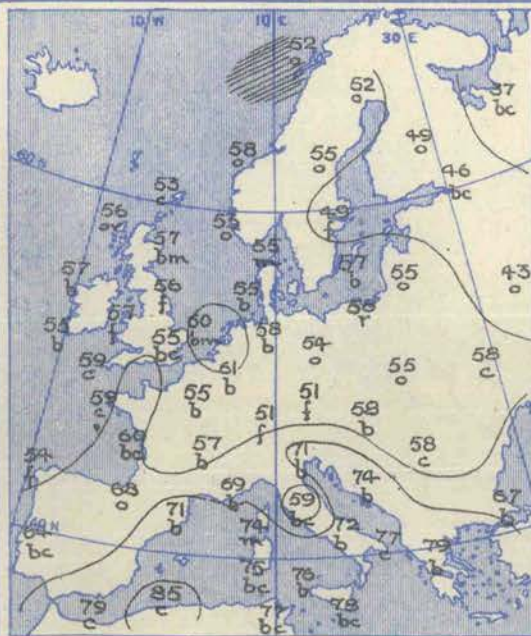
Wind light from the Eastward or North-Eastward on our own extreme western and southern and the French coasts; variable in the north-west of our Islands; light from the Westward on our east coasts. Calm or variable over the greater part of northern Europe, but light from East in the west of Norway. Cyclonic circulation of light breezes reported over Germany and Austria; wind very variable in all the southern countries. South-Westerly breezes setting in later over the northern parts of Scotland and Scandinavia.

Barometer highest, 30.1 ins. and upwards in an anticyclone of irregular form lying over the greater part of northern and north-western Europe, and also in a smaller system over the Black Sea and the extreme south of Russia; below 30.0 ins. in a shallow cyclonic area off the coasts of Finmark. Lowest, 29.9 ins. and less in a small depression over Germany; 30.0 ins. and less in two other areas—one lying over Greece and the other over Algeria and the western and southern parts of the Spanish Peninsula. German depression subsequently moving north-eastwards; new and rather deep disturbance appearing off the northern part of the Norwegian coasts.

Monday, 8th September.

Temperature and Weather.

8 a.m.

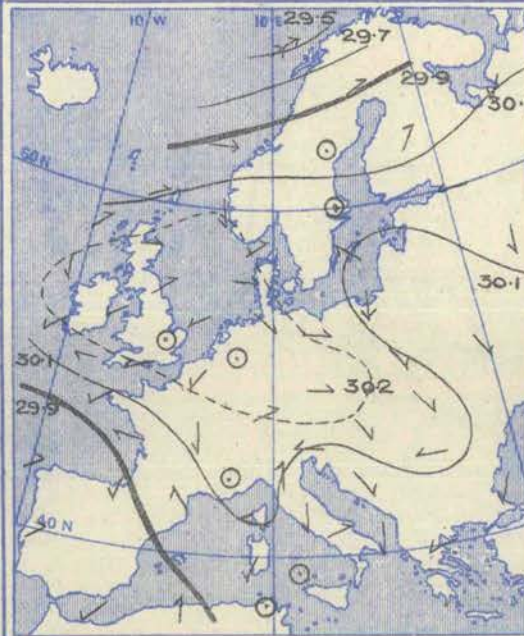


Weather in morning fine over western, central, and southern Europe generally, but foggy in the central parts of the United Kingdom, and also in south Germany. Dull at most of the Russian and Scandinavian stations, and also over northern and eastern Germany, with rain at Neufahrwasser. Slight rain falling later in the north of Scotland, and a considerable quantity in the west of Norway. Thunderstorms occurring at Bordeaux and Biarritz.

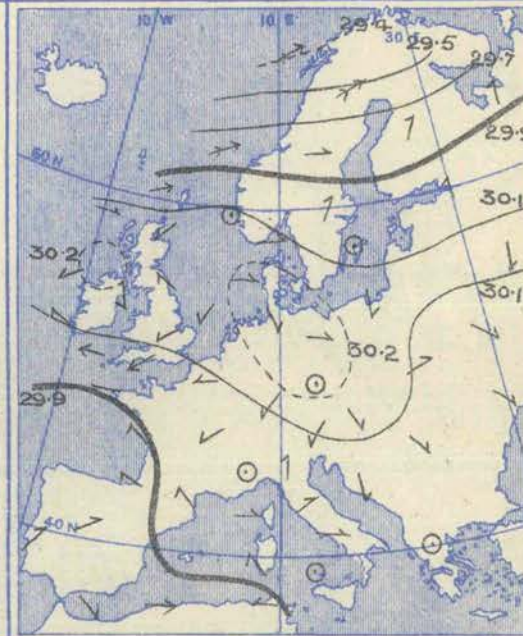
Temperature fallen in the west and north of our Islands, and also in Russia, Austria, and Italy; risen in most other parts of Europe. Morning readings highest, 85° at Algiers, 79° at Oran, Athens, and Patras, and 75° at Malta; above 70° at most of the Mediterranean and Adriatic stations; highest in our Islands, 63° at Dungeness, and 62° at Jersey. Lowest, 37° at Archangel, 43° at Moscow, and 46° at St. Petersburg; lowest in the United Kingdom, 50° at Loughborough, Oxford, and Parsonstown. Rising during day to 70° or slightly above it in several parts of our Islands, to 75° and upwards in the west of France, and to 80° and upwards over southern Europe generally, the highest reading reported being 87° at Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



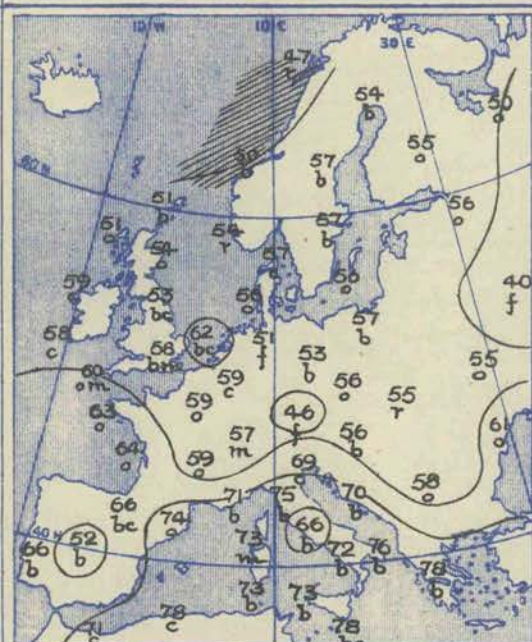
Wind light to moderate from the Eastward or North-Eastward over France and the southern parts of the United Kingdom; calm or variable in the central parts of our Islands; Westerly or South-Westerly in Scotland and Scandinavia, and strong to a gale in force in the west of Norway. Light from the Westward or North-Westward in Denmark, Germany, and Austria; variable in Italy; South-Westerly in the western parts of the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying over the greater part of the United Kingdom, the North Sea, Germany, and the Netherlands. Lowest, 29.6 ins. and less in a well-marked cyclonic disturbance lying off the coasts of Finmark; 29.9 ins. and upwards in a shallow area over Spain and Algeria. Cyclonic system off the Norwegian coasts subsequently moving eastwards; low-pressure system over Spain spreading northwards over the Bay of Biscay, and barometer falling over western Europe generally.

Tuesday, 9th September.

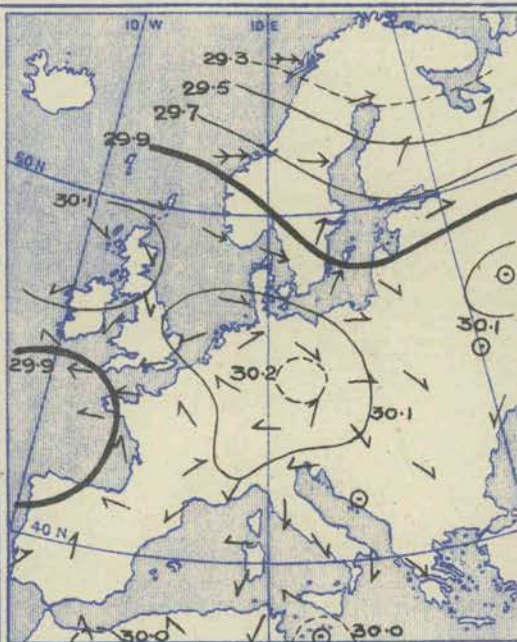
Temperature and Weather.

8 a.m.

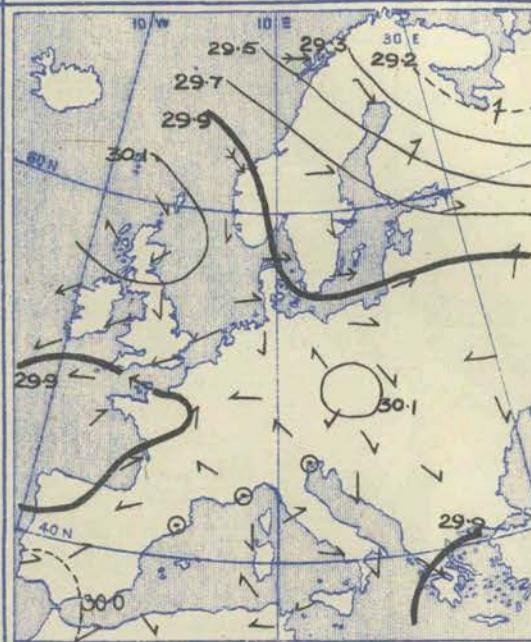


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Ireland, England, and the greater part of the Continent, but with fog in many places. Dull in Scotland, and rainy in the west of Norway; dull also over the greater part of France, Russia, and eastern Austria, with rain at Lemberg. Slight rain falling later over England, the south of Ireland, and the north of France, as well as in the north of Scotland; thunderstorms occurring in evening or night at several of the English and Bristol Channel stations, as well as at Aumale.

Temperature risen in most of the western and northern countries, but fallen in the west of Norway. Morning readings highest, 79° at Aumale, 78° at Athens, Patras, Algiers, and Malta, and 76° at Brindisi; above 70° at most of the Mediterranean stations. Lowest, (1) 40° at Moscow, (2) 46° at Munich and 47° at Prague, (3) 47° at Bodö and 50° at Christiansund and Leith. Rising during day to 65° and upwards over England and the southern parts of Ireland and Scotland, and to 72° in London; exceeding 75° in the west of France, and exceeding 80° over southern Europe generally, the highest readings reported being 88° at Marseilles, and 87° at Rome.

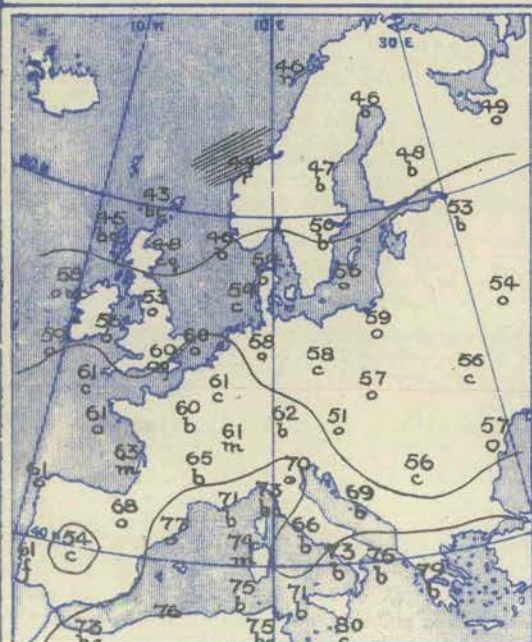
Wind Easterly over France, western Germany, the Netherlands, and the southern parts of the United Kingdom, and strong in force in the western parts of the Channel; light from the North-Eastward in the north of Ireland, and from between North and West in Scotland. Westerly or South-Westerly over Scandinavia, Denmark, and Northern Russia, with a gale in the west of Norway. Light from the Northward or North-Westward in Austria, Italy, and Greece. Subsequently shifting to the Eastward in Scotland; veering to the North-Westward in Scandinavia, and continuing to blow very strongly.

Barometer highest, 30.2 ins. and upwards over central Germany; 30.1 ins. and upwards in an anticyclone covering nearly the whole of central Europe, and also in another system over Scotland and the north of Ireland. Lowest, 29.3 ins. and less in a cyclonic system of considerable size and depth over the extreme north of Scandinavia; 29.9 ins. and less in another large but much shallower disturbance over the Bay of Biscay. Cyclonic system over northern Europe subsequently travelling eastwards; low pressure area over Bay of Biscay spreading north-eastwards over the English Channel.

Wednesday, 10th September.

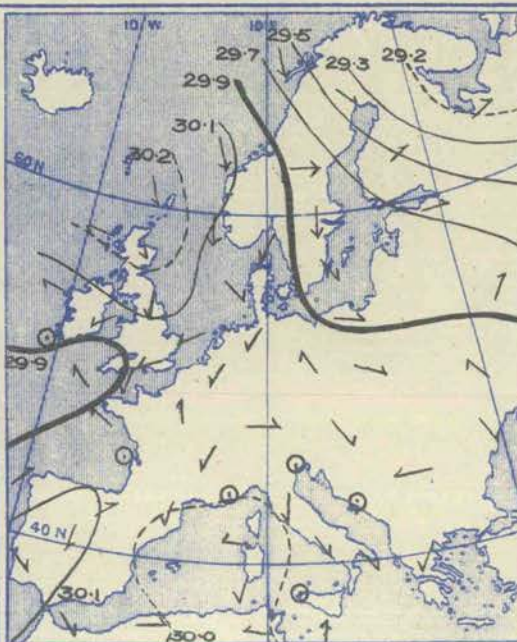
Temperature and Weather.

8 a.m.

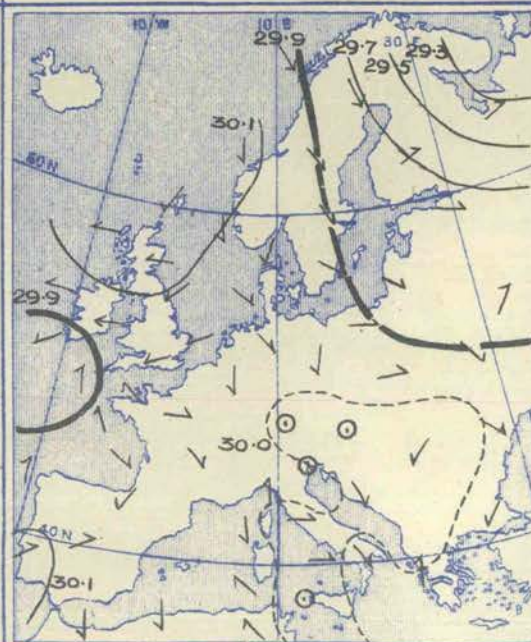


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the United Kingdom generally, with mist at several of our western and southern stations, and slight rain over eastern and central England. Fine over the greater part of the Continent, but dull in north Germany, and rainy in the west of Norway. Rain falling later in most parts of north-western Europe—heavily in places; thunderstorms occurring in London and at Lyons, and thunder only at Oxford.

Temperature fallen over Scotland and the northern parts of the Continent generally, but risen in most other regions. Morning readings highest, 80° at Malta, 79° at Patras, 77° at Barcelona, and 76° at Athens; above 70° at most of the Mediterranean stations. Lowest, 43° at Sumburgh Head, 44° at Christiansund, 45° at Stornoway, and 46° at Skudesnes, Bodö, and Haparanda; below 50° over Scandinavia, and the northern parts of Russia and Scotland. Remaining below 55° all day in the north of Scotland and below 60° over the northern parts of the United Kingdom generally, but exceeding 65° in the south-east of England; exceeding 80° in most parts of southern Europe, the highest readings reported being 90° at Florence and 89° at Palermo.

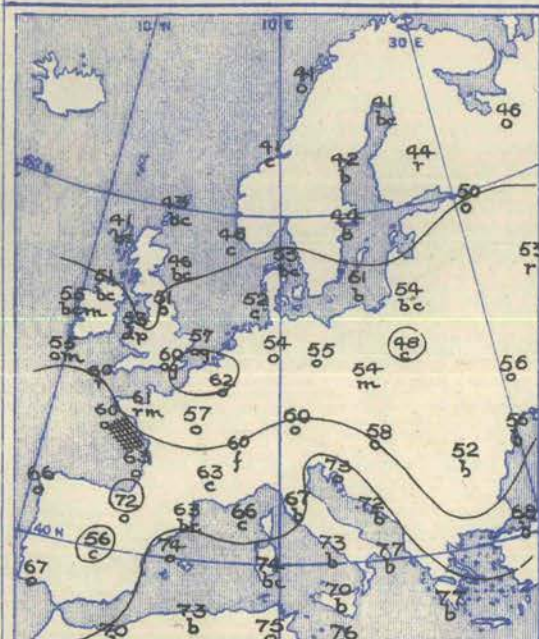
Wind light to moderate from the Southward in the west and north of France, but from the Eastward and North-Eastward over the United Kingdom and the Netherlands. Strong from the Northward or North-Westward in Scandinavia; light from the South-Westward over northern and central Russia. Variable in Germany; light from the North-Westward in Italy and Austria; variable over the Mediterranean and the Spanish Peninsula. Subsequently veering to South-West or West over France and the eastern parts of the Channel; no important change occurring elsewhere.

Barometer highest 30.2 ins. and upwards over the north of Scotland and the neighbouring parts of the Atlantic; 30.1 ins. and upwards over the Spanish Peninsula. Lowest, 29.2 ins. and less in a cyclonic system moving eastwards across the White Sea; 29.9 ins. and less in a shallow disturbance lying off our own extreme south-west coasts. Cyclonic system in far north continuing to travel eastwards during day; depression off our south-west coasts remaining almost stationary, but small secondary disturbance forming over the Channel and the south-east of England.

Thursday, 11th September.

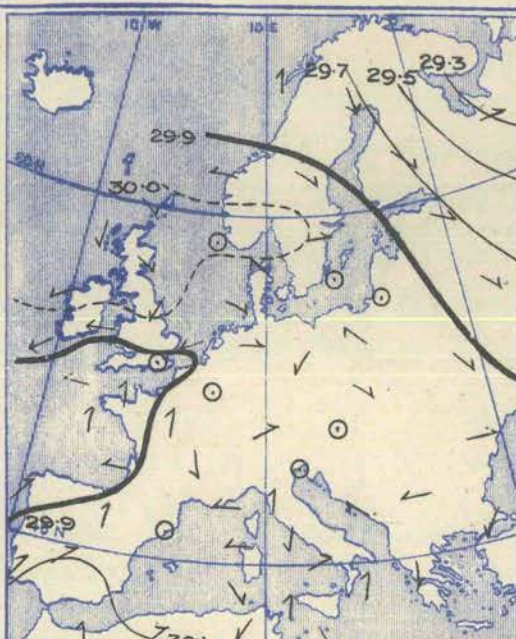
Temperature and Weather.

8 a.m.

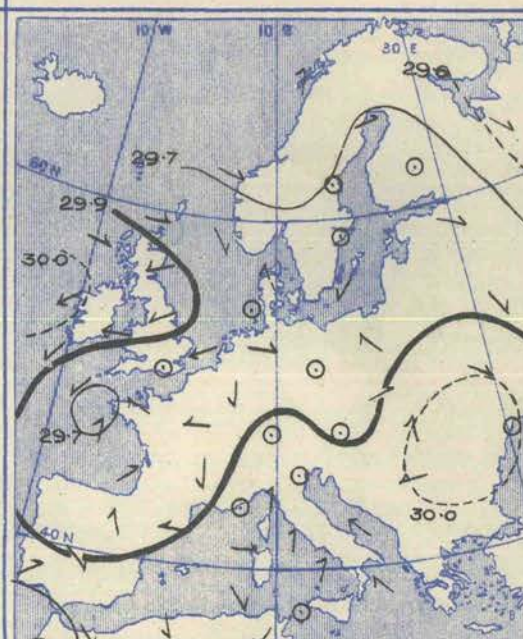


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the northern parts of Ireland and Scotland, but cloudy or dull over western and central Europe generally; rain falling at many of the English stations, and also at Leith and Le Mans; fog reported in some parts of France and Germany. Fine over the greater part of southern Europe, and also in Scandinavia; dull in Russia, with rain at Kuopio, Moscow, and Kharkov. Rain falling during day over nearly the whole of Great Britain and the western parts of the Continent; heavily in the west and north of France; thunderstorms occurring at Lyons and Biarritz.

Temperature fallen over western and northern Europe, changed irregularly elsewhere. Morning readings highest, 77° at Brindisi and Patras, 76° at Malta, and 75° at Athens and Tunis; above 70° at most of the Mediterranean and Adriatic stations. Lowest, 40° at Wick, and 41° at Stornoway, Bodø, Christiansund, and Haparanda; below 45° over the northern parts of Scotland and the Continent generally. Daily maxima below 55° at several of our own northern and central stations, but thermometer rising to 66° in London and at Dungeness. Exceeding 80° over southern Europe, and reaching 88° at Cagliari, and 92° at Palermo.

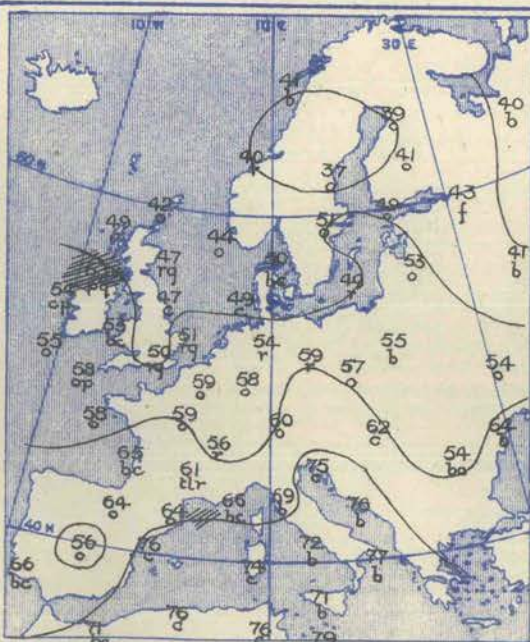
Wind moderate from the Southward or South-Westward over the Spanish Peninsula, the west and north of France, and the eastern parts of the English Channel; moderate to fresh from the Eastward or North-Eastward over England and Ireland; light from North-West in the north of Scotland. Variable over Scandinavia, Denmark, Germany, Austria, and Italy; North-Westerly over Russia and the Gulf of Bothnia. No important change occurring during day.

Barometer highest, 30.1 ins. and upwards over Algeria and the southern parts of Spain; 30.0 ins. and upwards over the northern parts of our Islands, and the North Sea and the south of Scandinavia. Lowest, 29.3 ins. and less in a well-marked cyclonic system over the extreme north of Russia; 29.8 ins. and less in a shallower disturbance over the south-west of England. Both depressions moving eastwards later; disturbance over our south-west coasts increasing slightly both in size and intensity.

Friday, 12th September.

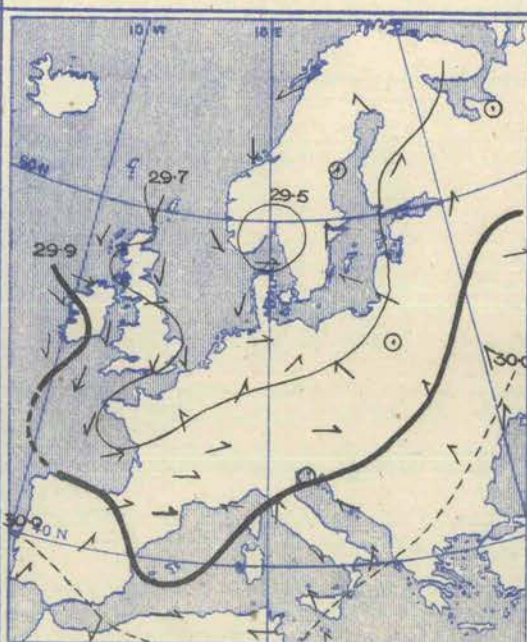
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



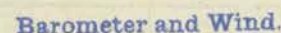
Weather fine on some parts of our own western coasts, and also over southern and eastern Europe generally. Cloudy or dull elsewhere, with passing showers in the north of Ireland and steady rain in many parts of Great Britain, France, north Germany, and the south of Sweden, as well as at Christiansund; thunderstorm reported at Lyons. Showers falling later over the United Kingdom, and heavy rain at many of the Continental stations—as much as 1.6 ins. at Frankfurt, 1.5 ins. at Besançon, and 1.1 ins. at Belfast.

Temperature risen over the northern parts of our Islands, and also over Germany, Austria, and Italy; fallen elsewhere. Morning readings highest, 79° at Brindisi, and 76° at Athens and Tunis; above 70° at most of the Mediterranean and Adriatic stations. Lowest, 37° at Hernosand, 39° at Uleaborg, and 40° at Archangel, Christiansund, and Wick; below 45° at most of the Scandinavian and northern Russian stations. Daily maxima below 55° in the north of Scotland, and below 60° in most other parts of the United Kingdom, but thermometer reaching 63° at Leith and 64° at Jersey. Exceeding 80° over southern Europe generally, and reaching 94° at Palermo.

Wind Northerly over the greater part of the United Kingdom, the Netherlands, and the north of France, as well as in the west of Norway, but Westerly over the northern parts of England and Ireland; light or moderate in force generally, but fresh on our south-west coasts. Light from the South-Westward in Germany, and from the Southward or South-Eastward over Sweden and northern Russia. South-Westerly also over the Spanish Peninsula and the south of France; Southerly in Italy. Subsequently blowing strongly from the Northward over our Islands and the North Sea.

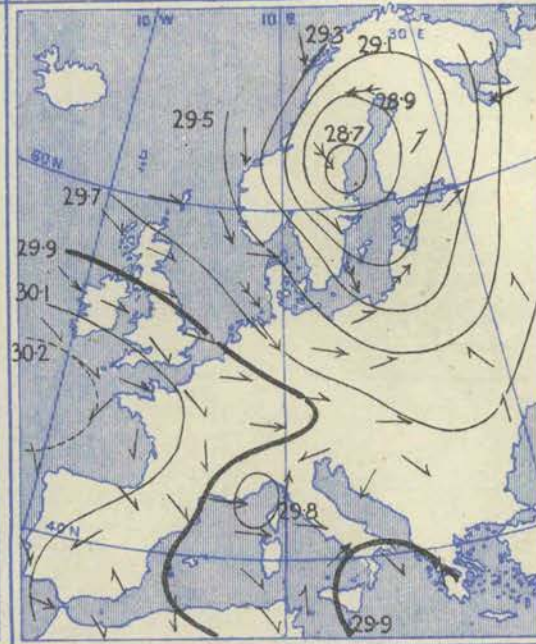
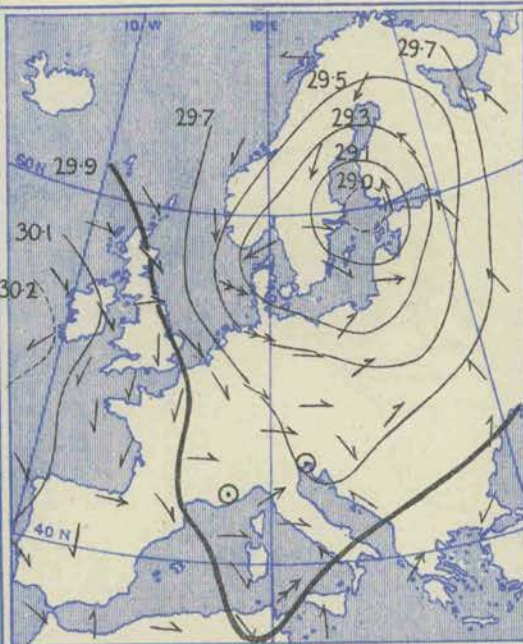
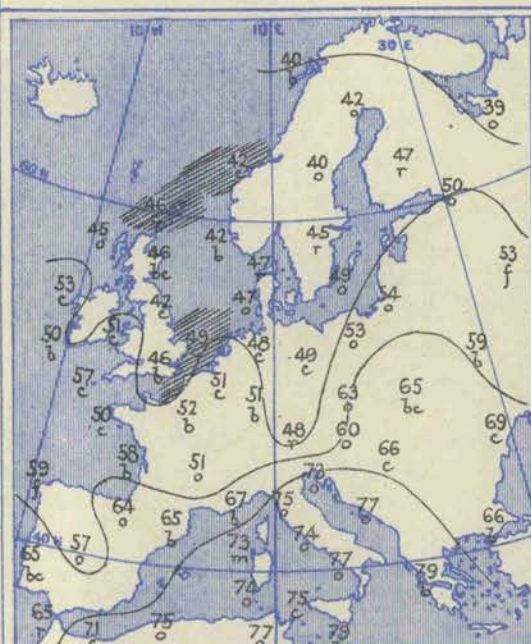
Barometer highest, 30.1 ins. and upwards in an anticyclone lying over the greater part of south-eastern Europe; 30.0 ins. and upwards over Algeria and the southern parts of Spain. Lowest, 29.5 ins. and less in a shallow cyclonic system with its centre over the Christiania Fjord; 29.7 ins. and less in an irregularly shaped area covering nearly the whole of north-western Europe. Cyclonic disturbance over the south of Norway subsequently becoming deeper; barometer falling over northern Europe, but rising in most parts of the United Kingdom.

Temperature and Weather.



8 a.m.

6 p.m.



Weather in morning fine over the greater part of the United Kingdom and France, and also in Greece and Turkey. Cloudy or dull in most other countries, with rain in many parts of Finland, Sweden, Denmark, and Germany, as well as at Bilbao. Showers falling later in the west and extreme north of the United Kingdom, and considerable quantities of rain over the northern parts of the Continent, the largest amount reported being 19 ins. at Haparanda.

Temperature fallen generally, but risen in Russia and Italy. Morning readings highest, 79° at Patras and Malta, and 77° at Lésina, Naples, and Tunis; above 70° at most of the Mediterranean and Adriatic stations, above 65° 39' at Archangel, and 49° at Bodó and Helsingfors; and 40° at Parsonstown, and 41° and Newton Reigny (Penrith) and Loughborough; below 45° at many of our own northern and central stations. Daily maxima below 55° in the north and east of our Islands, and below 60° in all other parts of the United Kingdom, excepting Scilly. Thermometer exceeding 80° in several parts of Spain, Italy, and the extreme south of France, and reaching 97° at Palermo.

Wind light to moderate from the Westward or North-Westward in all the more northern parts of the United Kingdom, and from the Northward on our southern and most of the French coasts. Cyclonic circulation of very strong winds prevailing over the whole of northern Europe, with gales from the Northward or North-Westward in Denmark and the south of Norway. Variable in Austria; Westerly or South-Westerly in Italy; North-Westerly over the Spanish Peninsula. Subsequently backing to the North-Westward on our own southern coasts; North-Westerly gales springing up in Sweden, and an Easterly gale at Haparanda.

coasts; North-Western gales springing up in Sweden, and an Easterly gale at Haparanda. *Barometer* highest, 30.1 ins. to 30.2 ins. in an anticyclone extending from the Atlantic over Ireland and the north-west of Spain. Lowest, 28.8 ins. and less in a deep cyclonic disturbance with its centre near the mouths of the Gulfs of Finland and Bothnia. Disturbance subsequently moving northwards; new, but much shallower, depression forming over the Gulf of Genoa, and the south-east of France.

GENERAL NOTES.

At the beginning of the week a large anticyclone of moderate height covered nearly the whole of western and northern Europe, the winds being consequently light and rather variable, and the weather mostly fair.

During the latter part of Monday, however, the high-pressure system began to break up, and in the course of the next two days a large cyclonic area of considerable depth moved eastwards across the extreme north of Europe, while a smaller and much shallower disturbance advanced across the north of the British Isles to the south-westward. The passage of the former system was accompanied by heavy (South-) Westerly to North-Westerly gales in many parts of Scandinavia and northern Russia, with considerable amounts of rain in places. The latter disturbance moved slowly eastwards across our southern districts and the north of France on Wednesday and Thursday, and occasioned general falls of rain in those regions, the amount being in some cases

NOTES.
extremely heavy and accompanied by thunder, lightning, and disastrous hailstorms. During the progress of the disturbance the wind in these Islands was at first Easterly, but afterwards North-Easterly, and finally Northerly, the shift to North being accompanied by a decided fall of temperature.

Towards the close of the week a new anticyclonic area spread from the Atlantic over the greater part of the United Kingdom, so that a temporary improvement in the weather occurred in most districts. Over northern Europe, however, the conditions were influenced by a cyclonic disturbance, which formed on Thursday night over the south of Norway, and which afterwards travelled north-eastwards and northwards, and increased greatly in depth. In the rear of this system a gale from the North-Westward and Northward sprang up over nearly the whole of Scandinavia, Denmark, and the eastern and central parts of the North Sea.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 218.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	24·4	- 0·9	27	- 1	WORKSOP	32·0	+ 3·7	36	+ 4	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	22·9	- 4·3	25	- 5	THURCASTON	36·6	+ 6·3	41	+ 7	SOUTHPORT	31·0	—	34	—
EDINBURGH	19·3	- 5·1	21	- 7	MARGATE	—	—	—	—	RHYL	—	—	—	—
MORPETH	35·4	—	39	—	BROADSTAIRS	41·8	—	46	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	24·5	—	27	—	EASTBOURNE	41·9	+ 1·5	47	+ 2	ABERDOVEY	41·8†	—	46†	—
YORK	30·3	+ 2·3	34	+ 2	BRIGHTON	36·8	- 3·5	41	- 4	TENBY	36·0	- 0·7	40	- 1
CROMER	28·6	—	32	—	WORTHING	39·1	—	43	—	NEWQUAY	44·4	+ 6·4	50	+ 8
LOWESTOFT	35·7	—	40	—	BOGNOR	—†	—	—†	—	TORQUAY	35·0	- 3·3	39	- 4
DUNMOW	40·9	—	45	—	WATERGATE	33·3	—	37	—	GUERNSEY	36·9†	- 6·4	42†	- 7
HOLLESLEY BAY	46·8	—	52	—	WESTBOURNE	35·4†	- 4·1	39†	- 5					
SHEFFIELD	24·1	—	27	—	VENTNOR HOSPITAL	37·6	- 3·9	42	- 5					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

[illegible]

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

VOL. XIX. No. 38.]
Fourth Series.

WEEK ENDING SATURDAY, SEPTEMBER 20TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 224.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	65	30	55.3	42.3	48.5	3 below	Day-deg. 46	Day-deg. -17	Day-deg. 0	Day-deg. -2	Day-deg. 1441	Day-deg. -250	Day-deg. 660	Day-deg. +86
	1. SCOTLAND, EAST	68	33	56.7	43.1	49.6	3 below	53	-18	0	-2	1625	-392	727	+106
	2. ENGLAND, N.E.	66	38	58.4	45.5	51.7	3 below	68	-14	0	-1	1992	-199	522	+12
	3. ENGLAND, EAST	68	34	61.5	44.8	52.7	3 below	75	-20	0	-1	2377	-157	516	-42
	4. MIDLAND COUNTIES	67	34	60.5	44.2	52.0	3 below	70	-16	0	-2	2283	-220	523	-45
5. ENGLAND, SOUTH	68	31	62.1	46.8	54.1	3 below	85	-18	0	-1	2501	-251	358	-56	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	35	58.3	46.7	52.2	1 below	71	-4	0	-1	1927	-198	483	+49
	7. ENGLAND, N.W.	65	38	59.0	47.8	53.2	2 below	78	-8	0	-1	2130	-200	421	+5
	8. ENGLAND, S.W.	67	32	61.6	47.0	54.0	2 below	84	-12	0	0	2441	-129	324	+6
	9. IRELAND, NORTH	62	34	58.2	47.0	52.4	1 below	73	-7	0	-1	1984	-268	339	-29
	10. IRELAND, SOUTH	68	32	61.4	47.6	54.2	1 below	85	-4	0	-1	2436	-116	240	-29
	— CHANNEL ISLANDS	66	43	62.9	53.0	57.7	2 below	110	-7	0	0	2876	-57	90	-24

DISTRICTS. (See p. 224.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	10ths of in. 1 more	186	+23	32.4	-1.1	24	+1	27	+1	928	-29	26	-1
	1. SCOTLAND, EAST	4	3	4 less	153	-14	17.8	-4.0	22	-4	25	-4	970	-127	27	-4
	2. ENGLAND, N.E.	3	2	3 less	131	+3	15.5	-1.9	21	-3	24	-3	1047	-36	30	-1
	3. ENGLAND, EAST	2	1	5 less	130	+2	17.4	+0.1	41	+6	47	+7	1325	-48	36	-1
	4. MIDLAND COUNTIES	3	2	5 less	128	+4	17.5	-1.9	36	+8	41	+9	1111	-23	33	-1
5. ENGLAND, SOUTH	2	2	5 less	126	+7	18.4	-0.4	43	+6	50	+7	1330	-85	37	-2	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	9	2 less	163	+18	33.9	-0.2	31	+3	35	+4	1081	-66	31	-2
	7. ENGLAND, N.W.	4	3	6 less	154	+19	19.4	-3.9	35	+7	41	+9	1246	+88	36	+3
	8. ENGLAND, S.W.	3	3	6 less	139	+1	21.2	-5.7	45	+11	51	+13	1293	-99	38	-3
	9. IRELAND, NORTH	6	8	0 (average)	183	+23	25.7	+1.2	28	+2	32	+2	1039	-15	30	0
	10. IRELAND, SOUTH	4	4	4 less	146	-1	23.4	-4.5	38	+7	43	+8	1188	-10	34	0
— CHANNEL ISLANDS		4	1	6 less	143	+5	18.7	-2.4	44	+3	51	+3	1461	-150	43	-4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was very changeable in the earlier half of the week, with considerable falls of rain in the extreme northern and north-western parts of the United Kingdom, and showers in most other districts, thunder and lightning being observed at a few isolated places in the north and east. After the middle of the period a general improvement occurred, the days being fine and sunny, but the nights foggy or misty at most inland stations. At the close of the week unsettled weather was again setting in over the western and northern districts.

Temperature was below the mean, the deficit ranging from only 1° in Ireland and in Scotland W., to 3° in all the Wheat-producing districts. The highest of the maxima occurred at times varying greatly in the different districts, but mostly in the earlier half of the week in the north and east, and in the latter half in the west and south; in all but the extreme northern and north-western parts of the Kingdom the thermometer rose slightly above 65°, but in no case did it reach 70°. The lowest of the minima occurred on the 18th or 19th, the sheltered thermometer falling below 35° in most districts and reaching 30° in Scotland N. (at Lairg and Fort Augustus). On the night of the 18th the thermometer on the grass fell to 28° at Fort William, to 30° at Oxford, and to 32° in London.

Rainfall was considerably less than the mean over the United Kingdom generally, but was just equal to the normal in Ireland N., and slightly in excess in Scotland N.

Bright Sunshine was in excess of the mean in all districts excepting Scotland E. and England N.E., the excess being large in the south of Ireland and the western and central parts of Great Britain. The percentage of the possible duration ranged from 51 in England S.W. and the Channel Islands, and 50 in Scotland E., to 24 in England N.E.

Barometer and Wind. During the earlier half of the week, when the barometer was highest over France and Spain, the centre of a large but somewhat shallow cyclonic system moved eastwards along our extreme northern coasts, and afterwards across the south of Scandinavia. During its passage the wind blew freshly or strongly in many parts of our Islands, at first from the South-Westward, and afterwards from the Westward or North-Westward. As the disturbance passed away an anticyclone spread over from the Atlantic, and during the remainder of the week this moved very slowly eastwards across western Europe, the wind being at first rather variable, but afterwards shifting to the Southward or South-Eastward, and blowing freshly or strongly on our extreme west and south-west coasts.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
0. SCOTLAND, N.	Sumburgh Head	53	37	50.7	41.0	45.6	- 4.6	29	3	7	0.60	- 0.22	*	*	*	*
	Stornoway	60	34	55.1	41.6	48.0	- 2.8	44	1	5	0.81	- 0.16	36.7	+ 12.0	42	+ 14
	Wick	58	33	54.3	40.3	47.0	- 4.4	42	5	7	0.89	+ 0.25	*	*	*	*
	Lairg	64	30	60.6	42.6	51.2	+ 1.1	64	0	4	0.77	+ 0.04	*	*	*	*
	Glencarron	65	34	55.3	41.9	48.3	- 2.3	45	0	5	2.85	+ 1.03	*	*	*	*
	Fort Augustus	61	30	56.1	42.5	49.0	- 3.5	49	0	7	0.77	- 0.17	16.5	- 1.7	19	- 2
1. SCOTLAND, E.	Fort William	59	36	55.2	45.9	50.3	- 2.6	58	0	6	1.73	+ 0.03	14.9	- 7.1	17	- 8
	Nairn	61	33	56.7	42.4	49.2	- 3.2	50	0	4	0.24	- 0.34	*	*	*	*
	Aberdeen	59	36	54.7	42.9	48.5	- 4.0	46	0	3	0.21	- 0.46	27.0	- 1.5	31	- 2
	Braemar	59	33	52.9	41.6	47.0	- 2.1	37	1	4	0.53	- 0.24	*	*	*	*
	Ochertyre	68	38	59.3	43.9	51.2	- 1.3	64	0	4	0.48	- 0.32	*	*	*	*
	Leith	64	40	60.4	44.4	52.0	- 2.2	70	0	3	0.06	- 0.43	*	*	*	*
2. ENGLAND, N.E.	Marchmont	57	39	56.0	43.3	49.4	- 2.4	52	0	4	0.35	- 0.37	23.8	- 2.2	27	- 3
	Alnwick Castle	60	38	56.7	42.8	49.4	- 3.3	52	0	5	0.37	- 0.26	*	*	*	*
	Durham	60	41	57.6	45.1	51.1	- 2.3	64	0	4	0.28	- 0.25	23.1	- 3.7	27	- 4
	Shields	61	39	57.6	45.0	51.0	- 2.6	63	0	4	0.30	- 0.20	*	*	*	*
	Scarborough	60	42	58.0	45.9	51.7	- 3.1	68	0	4	0.36	- 0.22	21.8	—	25	—
	Spurn Head	62	45	59.9	49.4	54.4	- 1.7	87	0	1	0.05	- 0.38	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	66	38	60.5	45.0	52.4	- 2.8	73	0	0	0.00	- 0.47	*	*	*	*
	Hillington	64	34	61.8	44.0	52.5	- 2.8	74	0	2	0.04	- 0.56	38.2	+ 7.4	44	+ 8
	Yarmouth	63	41	59.6	45.7	52.3	- 4.1	72	0	1	0.01	- 0.59	*	*	*	*
	Geldeston	64	36	61.7	43.6	52.2	- 4.1	71	0	3	0.15	- 0.40	34.8	- 0.8	40	- 1
	Cambridge	68	36	64.3	44.6	54.0	- 2.3	84	0	1	0.01	- 0.46	42.9	+ 8.9	49	+ 10
	Felixstowe	65	41	61.9	47.1	54.1	- 1.7	85	0	1	0.02	—	45.1†	—	52†	—
4. MIDLAND COUNTIES	Rothamsted	62	34	59.6	43.5	51.2	- 3.8	64	0	3	0.05	- 0.55	40.5	+ 8.3	47	+ 8
	Harrogate	60	40	58.5	44.5	51.2	- 2.1	64	0	3	0.25	- 0.41	33.1	—	38	—
	Bawtry (Hesley Hall)	63	36	60.4	43.6	51.6	- 3.4	67	0	1	0.02	- 0.50	*	*	*	*
	Loughborough	67	36	61.6	43.7	52.2	- 3.5	71	0	5	0.20	- 0.35	*	*	*	*
	Colly Weston (Stamford)	65	38	61.3	45.0	52.3	- 3.0	76	0	4	0.08	- 0.48	*	*	*	*
	Cheadle	61	41	57.8	44.8	51.0	- 2.3	63	0	3	0.39	- 0.32	*	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	63	43	60.5	46.3	53.1	- 1.7	78	0	2	0.05	- 0.53	27.6	—	32	—
	Churchstoke	62	34	60.3	43.0	51.2	- 2.4	64	0	4	0.24	- 0.39	43.3	+ 11.9	50	+ 13
	Hereford	64	34	62.6	44.5	53.1	- 2.1	78	0	3	0.16	- 0.44	*	*	*	*
	Cirencester	63	34	60.4	42.6	51.1	- 3.3	64	0	2	0.15	- 0.51	44.7	+ 13.4	51	+ 15
	Oxford	64	35	61.9	44.3	52.7	- 3.2	75	0	1	0.01	- 0.54	37.6	+ 4.6	43	+ 5
	London	68	37	63.6	46.0	54.4	- 3.0	87	0	1	0.04	- 0.48	29.4†	+ 0.6†	34†	+ 14
6. SCOTLAND, W.	Swarraton (Alresford)	62	31	60.7	42.2	51.0	- 3.8	63	0	2	0.03	- 0.64	*	*	*	*
	Dungeness	66	37	63.6	46.6	54.7	- 3.2	89	0	2	0.50	- 0.10	46.2	—	53	—
	Hastings (St. Leonards)	63	41	61.5	47.7	54.3	- 3.6	86	0	2	0.32	- 0.33	47.2	+ 8.6	54	+ 10
	Southampton	65	40	64.3	46.9	55.2	- 2.2	92	0	3	0.11	- 0.55	45.3	+ 9.0	52	+ 10
	Portland Bill	63	48	61.1	52.3	56.5	- 1.5	102	0	1	0.03	—	*	*	*	*
	Shaftesbury	61	41	59.7	45.7	52.4	- 2.8	73	0	3	0.06	- 0.71	*	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	59	40	56.7	46.3	51.3	- 1.9	65	0	6	1.68	+ 0.02	*	*	*	*
	Glasgow	59	43	56.4	47.3	51.6	- 0.9	67	0	5	0.86	- 0.01	28.5	+ 6.8	33	+ 8
	Cally	63	35	61.2	43.3	51.8	- 0.9	69	0	4	0.61	- 0.44	*	*	*	*
	Douglas (Isle of Man)	62	45	58.9	49.7	54.1	+ 0.6	85	0	4	0.31	- 0.54	32.5	- 0.1	37	0
	Newton Reigny	60	38	57.1	43.1	49.8	- 3.0	55	0	5	0.61	—	24.0	—	28	—
	Stonyhurst	59	43	56.9	47.6	52.0	- 1.8	70	0	5	0.33	- 0.82	33.9	+ 5.5	39	+ 7
8. ENGLAND, S.W.	Blackpool	61	43	59.5	49.2	54.1	- 1.0	85	0	4	0.09	- 0.75	34.0	+ 6.3	39	+ 7
	Manchester (Prestwich)	65	41	59.6	45.9	52.4	- 1.8	73	0	5	0.53	- 0.37	31.7	—	36	—
	Liverpool Obs. (Bidston)	62	46	59.0	49.3	53.9	- 1.7	83	0	5	0.16	- 0.57	35.6	—	41	—
	Chester	65	42	61.1	47.6	54.0	- 2.3	84	0	4	0.18	—	*	*	*	*
	Llandudno	63	47	60.8	50.2	55.3	- 1.2	93	0	4	0.12	- 0.58	38.6	+ 10.5	44	+ 12
	Holyhead	61	47	58.3	49.6	53.7	- 2.4	82	0	3	0.10	- 0.63	*	*	*	*
9. IRELAND, N.	Llandoverly	67	32	62.6	42.6	52.1	- 2.5	71	0	5	0.21	- 0.82	*	*	*	*
	Pembroke	62	46	60.0	49.9	54.7	- 1.8	89	0	2	0.14	- 0.62	44.6	+ 10.9	51	+ 12
	Clifton	65	42	62.3	47.8	54.7	- 1.3	89	0	3	0.33	- 0.45	*	*	*	*
	Bath	64	36	62.0	45.3	53.3	- 3.4	79	0	2	0.52	- 0.17	31.6	—	36	—
	Arlington (N. Devon)	62	39	60.3	46.7	53.2	- 1.8	78	0	4	0.51	- 0.64	*	*	*	*
	Cullompton	65	33	62.8	42.6	52.2	- 4.2	71	0	2	0.07	- 0.67	38.3	+ 5.5	44	+ 6
10. IRELAND, S.	Falmouth	63	47	60.7	51.2	55.7	- 1.2	96	0	2	0.16	- 0.81	48.9	+ 12.3	57	+ 14
	Plymouth	64	41	62.4	49.9	55.9	- 1.2	97	0	1	0.04	- 0.74	49.9	+ 14.6	58	+ 17
	Malin Head	61	46	56.9	48.4	52.5	- 1.9	74	0	6	0.91	+ 0.18	*	*	*	*
	Edenfel (Omagh)	62	34	57.0	45.4	50.9	- 1.2	62	0	6	0.76	- 0.04	*	*	*	*
	Blacksod Point	62	45	59.1	50.7	54.7	- 0.7	89	0	7	1.17	+ 0.24	*	*	*	*
	Markree Castle	61	35	58.5	46.2	52.1	- 0.9	71	0	6	1.00	+ 0.11	23.0	- 1.7	26	- 2
CHANNEL ISLANDS	Armagh	61	40	59.6	46.0	52.5	- 0.6	74	0	4	0.65	+ 0.01	32.4	+ 5.6	37	+ 6
	Donaghadee	59	40	58.1	45.3	51.4	- 2.7	66	0	4	0.21	- 0.44	*	*	*	*
	Dublin	62	42	60.5	48.4	54.2	- 1.2	85	0	4	0.20	- 0.32	39.0	+ 6.0	45	+ 7
	Parsonstown	63	35	61.0	43.3	51.7	- 2.3	68	0	5	0.30	- 0.36	37.2	+ 7.5	43	+ 8
	Kilkenny	62	32	60.6	44.0	51.9	- 2.7	69	0	3	0.34	- 0.28	*	*	*	*
	Roche's Point	62	44	60.9	50.3	55.4	- 0.7	94	0	3	0.24	- 0.60	*	*	*	*
CHANNEL ISLANDS	Valencia	64	40	61.6	50.3	55.7	- 0.6	96	0	6	0.83	- 0.18	37.2	+ 6.6	43	+ 7
	Killarney	68	37	64.0	50.4	56.9	+ 1.8	104	0	3	0.24	- 0.68	*	*	*	*
	Foynes	66	39	61.1	46.2	53.3	- 1.7	79	0	4	0.32	- 0.38	*	*	*	*
	Scilly (St. Mary's)	63	54	62.0	54.6	58.1	- 0.2	113	0	3	0.08	- 0.67	43.0	—	50	—
	Jersey	66	43	63.7	51.3	57.2	- 3.0	106	0	4	0.20	- 0.52	45.6	+ 3.4	53	+ 4

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

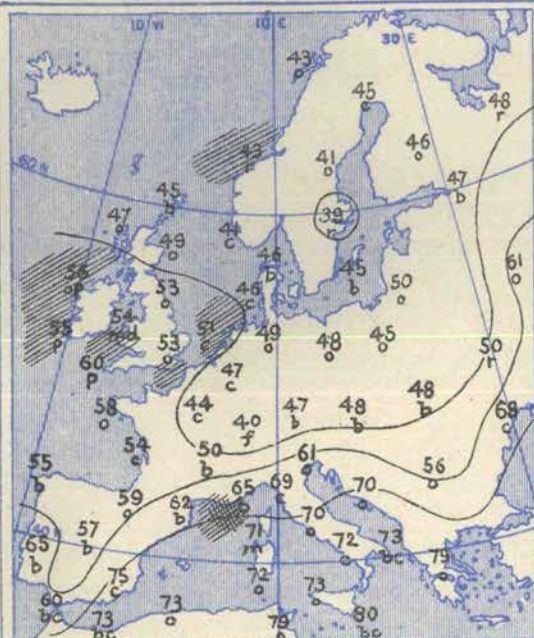
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Dungeness are recorded at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 14th September.

Temperature and Weather.

8 a.m.

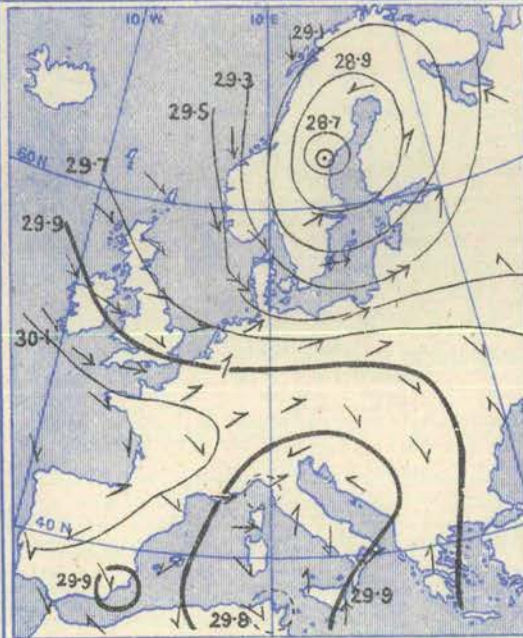


Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with showers over Ireland and the north of England, and steady rain at several of the Scandinavian and Russian stations. Fine in Spain and Austria, and also in the southern parts of France and Germany. Showers falling during the day in many parts of the United Kingdom, and steady rain over northern and central Europe—as much as 1.0 in. at Bodö and also at Pesaro.

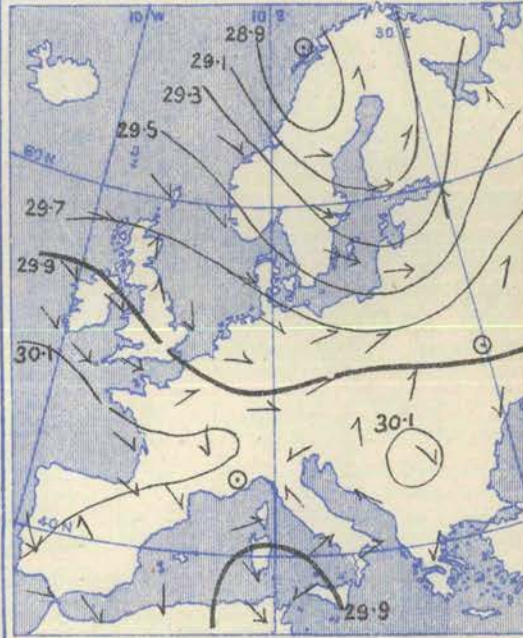
Temperature risen in our Islands, but fallen at most of the Continental stations. Morning readings highest, 80° at Malta, 79° at Athens and Sfax, and 78° at Palma and Brindisi; above 70° at most of the Mediterranean stations. Lowest (1) 39° at Stockholm, 41° at Hernösand and Skudessmaes, and 42° at Karlstad; (2) 40° at Belfort and 41° at Le Mans; below 50° over northern and central Europe generally, and also in the north of Scotland. Rising during day to 60° or slightly above it in many parts of the United Kingdom, and to 65° at Dungeness; exceeding 75° in most parts of southern Europe, and reaching 80° at Brindisi and Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



Wind strong from the North-Westward on the west and south of our Islands, and light from the same quarter in Scotland; westerly or South-Westerly over the eastern and central parts of England. Strong to a gale from the Northward or North-Westward in Norway and Denmark, and from the Westward over the Baltic and the south of Sweden; light to moderate from the South-Westward in Finland; Southerly over the central and southern parts of Russia; variable in Italy; Northerly (North-Easterly to North-Westerly) over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30.1 ins. and upwards in an anticyclone lying over the Bay of Biscay, the greater part of France, and the northern and central parts of Spain. Lowest, 28.7 ins. and less in a cyclonic disturbance of considerable size and depth with its centre near Hernösand; 29.7 ins. and less in two shallow areas—one lying over the Gulf of Genoa and the other over Tunis. Cyclonic system over northern Europe subsequently moving northwards; small secondary disturbances passing south-eastwards across the United Kingdom during day.

Monday, 15th September.

Temperature and Weather.

8 a.m.

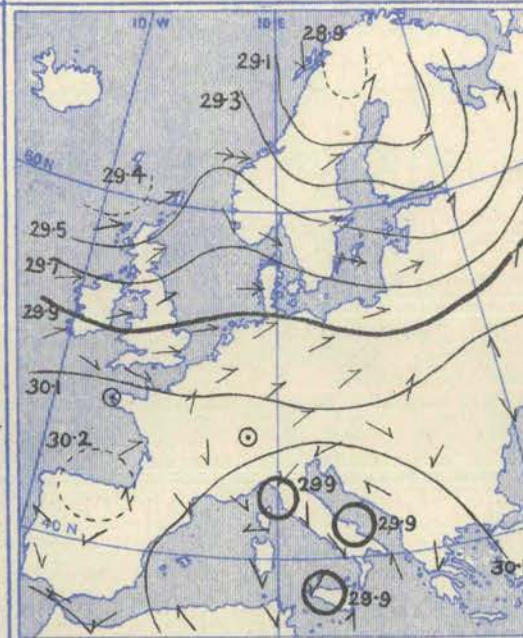


Weather in morning cloudy or dull over north-western Europe generally, with rain in the Hebrides and the west of Norway, and with passing showers at several of our western stations. Fine over Denmark, the Baltic, the south of Sweden, and the central and southern parts of Russia, as well as over the Spanish Peninsula and the south of France; cloudy at most of the German, Austrian, and Italian stations. Rain falling later over nearly the whole of north-western and northern Europe—rather heavily in places.

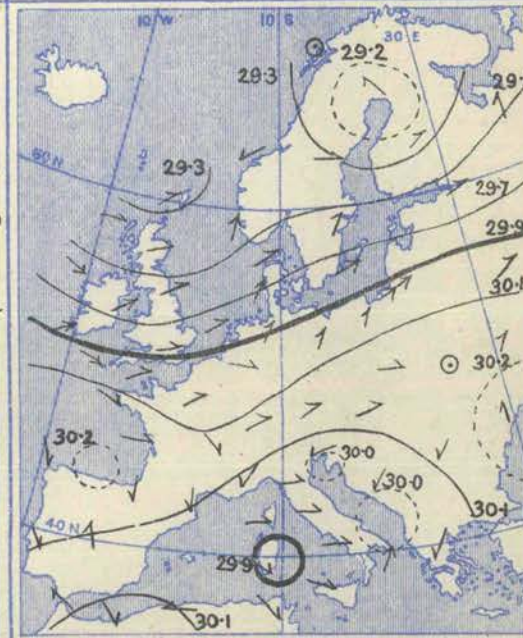
Temperature risen in most countries, but fallen in Russia and Italy. Morning readings highest, 80° at Malta, 79° at Athens, 78° at Patras, and 77° at Brindisi; above 70° at several of the Mediterranean and Adriatic stations. Lowest, 42° at Uleaborg and Kuopio, and 43° at Bodö, Haparanda, Karlstad, and Moscow; lowest in our Islands, 50° at Sumburgh Head, and 51° at Stornoway and Aberdeen. Daily maxima below 60° in most of our own northern districts, and very little above it at any of our southern stations excepting Dungeness, where the thermometer reached 66°. Exceeding 70° over southern Europe generally, and exceeding 80° over the southern parts of Spain and Italy.

Barometer and Wind.

8 a.m.



6 p.m.



Wind South-Westerly or Westerly over the United Kingdom and the north of France; light or moderate in force generally, but fresh or strong in the north of Ireland. Fresh to strong from the Westward or North-Westward over Denmark and the southern half of Scandinavia, with a gale at Christiansund and Wisby; South-Westerly or Southerly over the Gulf of Bothnia and northern Russia; variable in Italy; North-Westerly in the south of France; Easterly or North-Easterly over the Spanish Peninsula. Subsequently blowing very strongly from the Westward or South-Westward on many parts of the English and Irish coasts, backing to the South-Westward also in Denmark and the south of Scandinavia. Barometer highest, 30.2 ins. and upwards over the north of Spain; 30.1 ins. and upwards over the whole of south-western and south-eastern Europe, and also in a "col" stretching across south Germany and Austria. Lowest, 28.9 ins. and less in a well-marked rather deep cyclonic system with its centre over the north of Scandinavia; 29.4 ins. and less in another disturbance off the north of Scotland. Depression over northern Europe partially filling up later. Disturbance off our own northern coasts moving eastwards.

Tuesday, 16th September.

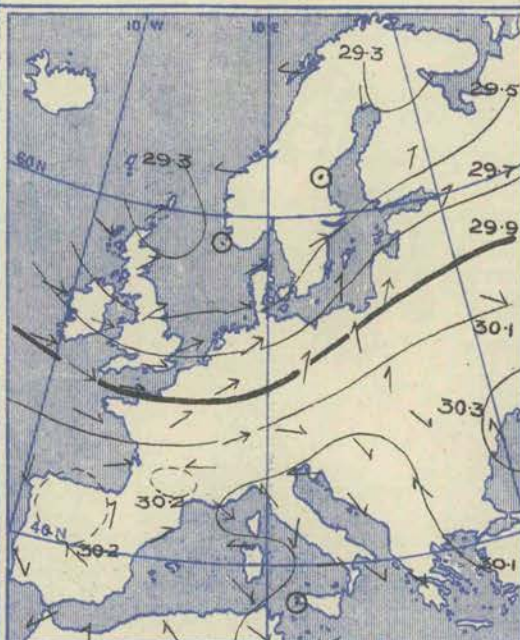
Temperature and Weather.

8 a.m.

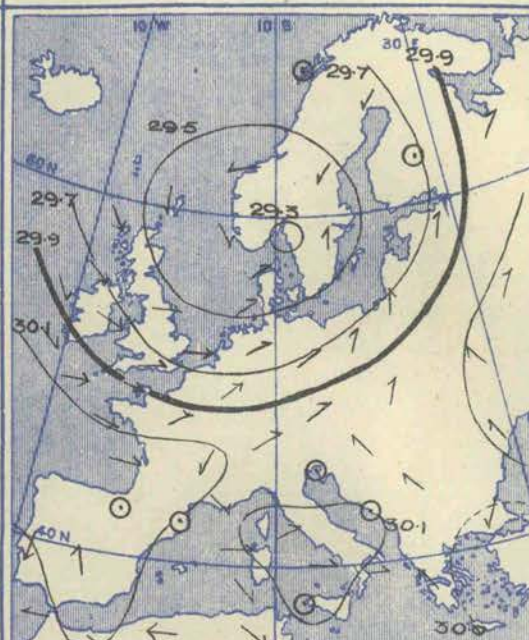


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning changeable and showery over England and Ireland, but fine in the north of Scotland. Cloudy or dull over the western, northern, and central parts of the Continent, with rain in the south of Sweden and the north of Russia, as well as at Skagen and Hermanstadt. Fine over southern Europe generally, but cloudy over the southern parts of Italy. Showers falling during day over nearly the whole of the United Kingdom, and considerable amounts of rain in some parts of Finland, Sweden, Germany, and the north-east of France—as much as 0.9 in. at Hangö, and 0.8 in. at Dunkirk and Cape Gris Nez.

Temperature fallen in the northern parts of the United Kingdom and also over southern Europe generally, but risen elsewhere. Morning readings highest, 82° at Malta, 81° at Athens, and 79° at Patras; above 70° over the central and southern parts of the Mediterranean generally. Lowest, 40° at Bodö, 42° at Haparanda; and 43° at Haparanda; lowest in our Islands, 44° at Wick. Remaining below 55° all day in the north of Scotland, but rising to 60° or slightly above it over the United Kingdom as a whole, and to 66° in London; exceeding 75° in many parts of southern Europe, and reaching 85° at Palermo, and 86° at San Fernando.

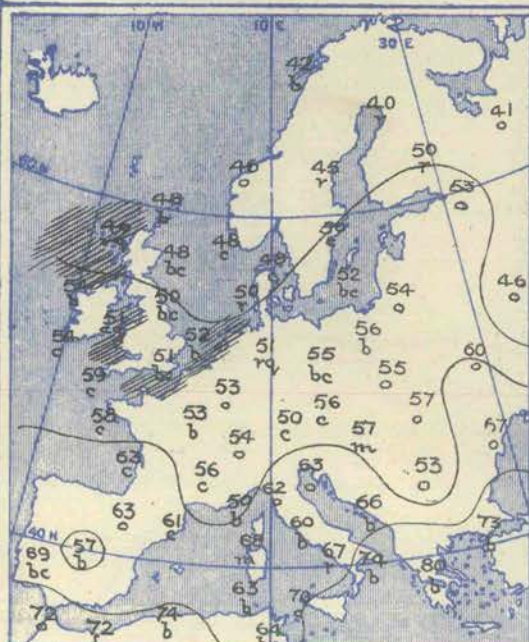
Wind fresh to strong from the Westward over Ireland and England; light or moderate from the South-Westward over the western and central parts of the Continent generally. Light from the Northward or North-Westward in the north of Scotland; Easterly in the west of Norway. Variable over all the southern and south-eastern parts of Europe. Subsequently veering to the North-Westward on our own western coasts; no decided change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards over the south of Russia; 30.2 ins. and upwards over the north of Spain and a portion of central France. Lowest, 29.3 ins. and less in two cyclonic systems—one lying off our own northern coasts, with its centre near the Shetlands, the other over Lapland. Former disturbance subsequently travelling eastwards over the northern part of the North Sea; depression over Lapland moving away to the north-eastward.

Wednesday, 17th September.

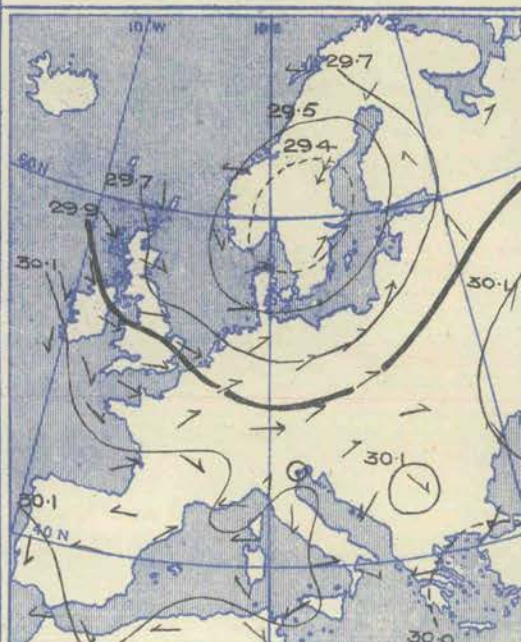
Temperature and Weather.

8 a.m.

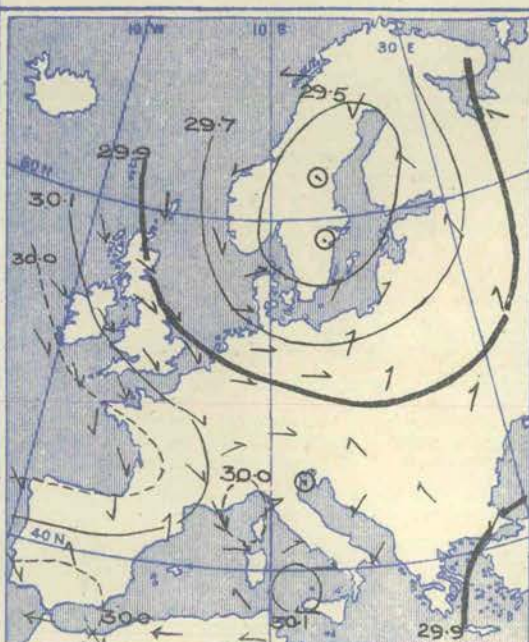


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine or fair over western and southern Europe generally, but rainy at Stornoway and showery at Loughborough and Malin Head; rain falling also at Naples. Dull in the northern, eastern, and central countries, with rain in many parts of Finland, Sweden, Denmark and north Germany. Showers falling during the day at several of our own and the French stations, and considerable quantities of rain in isolated parts of northern and central Europe.

Temperature fallen over western and northern Europe generally, but risen in the west of Norway. Morning readings highest, 80° at Athens, 78° at Patras, and 74° at Brindisi and Algiers; above 65° at most of the Mediterranean, Adriatic, and Spanish coast stations. Lowest, 37° at Haparanda, 40° at Uleaborg, 41° at Archangel, and 42° at Bodö; below 50° at several of our own northern and central stations. Daily maxima below 55° in the north of Scotland, and below 60° in all other parts of our Islands, excepting Leith and our extreme southern stations. Thermometer reaching 70° in the west of France and exceeding 75° over southern Europe, the highest reading reported being 84° at Madrid, Sanguinaire and Palermo.

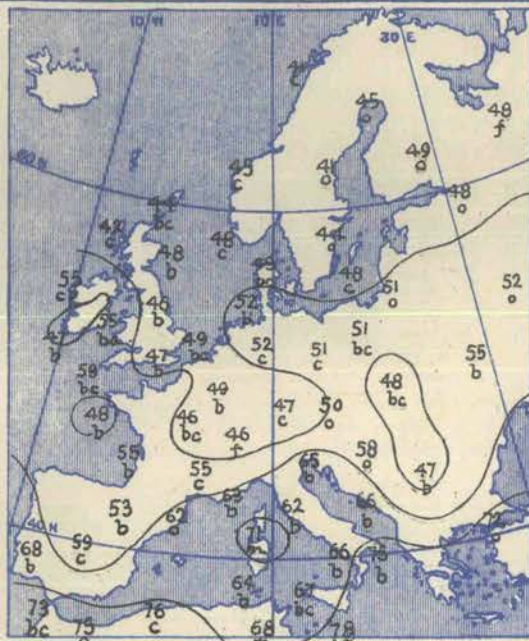
Wind Westerly or North-Westerly over our Islands and the neighbouring parts of the Continent, and strong over all the more exposed parts of the English and Irish coasts. Light to fresh from the South-Westward over central France, Belgium, Germany, Austria, Denmark, and the Baltic; Southerly in Russia; Easterly or North-Easterly in the northern parts of Scandinavia, with a gale at Helsingfors. Variable in Italy and the south of France; light from between East and North over the Spanish Peninsula. Subsequently veering to the Westward in Denmark and north Germany; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards to 30.1 ins. in two areas—one extending from the Atlantic over the Bay of Biscay, Spain, the southern parts of France and the western parts of the Mediterranean, the other lying over central and southern Russia. Lowest, 29.4 ins. and less in a large cyclonic system, with its central area over the southern parts of Scandinavia. Atlantic high-pressure system subsequently spreading northwards over all the western parts of the United Kingdom; cyclonic disturbance over Scandinavia moving slowly north-eastwards.

Thursday, 18th September.

Temperature and Weather.

8 a.m.

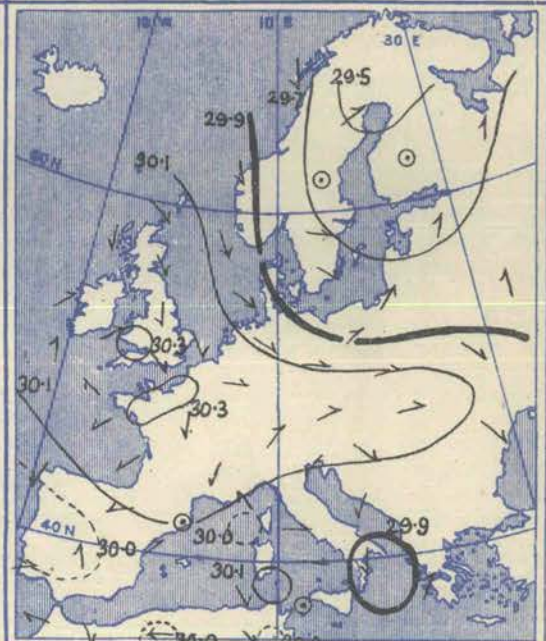


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western and southern Europe generally, but showery in the north of Ireland. Cloudy or dull at most of the Scandinavian, German, Russian, and Austrian stations, with rain at Swinemunde and Helsingfors. A little rain falling later at several of our own northern stations, and also over the northern parts of the Continent, and a considerable quantity at Pesaro; thunderstorms occurring at Algiers.

Temperature fallen in all but the southern countries. Morning readings highest, 78° at Malta, 76° at Algiers, and 75° at Brindisi, Nemours, and Oran; above 70° at several of the Mediterranean stations. Lowest, (1) 41° at Bodö and Hernösand, and 42° at Karlstad; (2) 41° at Parsonstown, and 42° at Stornoway and Wick; below 50° over the greater part of the United Kingdom. Daily maxima below 55° on the north coasts of Scotland, but thermometer rising slightly above 60° at most of our own central and southern stations. Exceeding 75° over southern Europe generally, and reaching 85° at Cagliari, and 84° at Madrid, San Fernando, and Palermo.

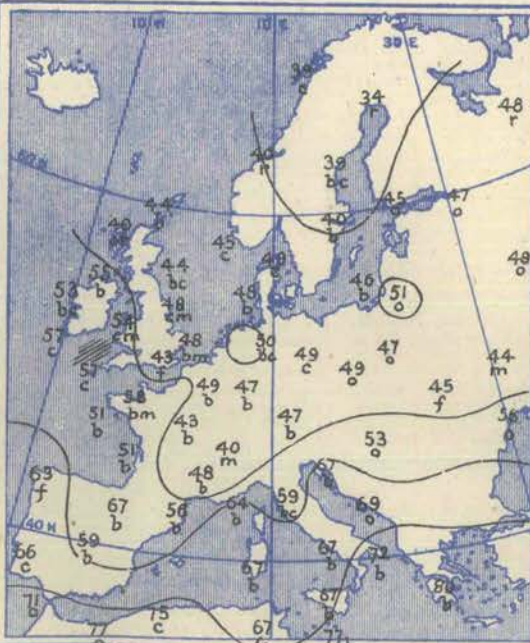
Wind light to moderate from the Northward or North-Westward over the greater part of the United Kingdom, and strong from the latter quarter on the eastern shores of the North Sea; Westerly over Germany, the Baltic, and the south of Sweden; South-Westerly or Southerly in Russia. Easterly or North-Easterly over the Bay of Biscay and the Spanish Peninsula; variable over Italy and the south of France. Light Southerly breezes setting in later over the west and south of Ireland; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards in a small area lying off the mouth of the English Channel; 30.1 ins. and upwards in an anticyclone extending from the Atlantic over the whole of our Islands, France, western and southern Germany, and the north of Spain. Lowest, 29.4 ins. and less in two small cyclonic areas—one lying over the northern part of the Gulf of Bothnia, and the other near the mouth of the Gulf of Finland. Anticyclone spreading eastwards later, over nearly the whole of central Europe; cyclonic systems over the southern countries moving slowly eastwards.

Friday, 19th September.

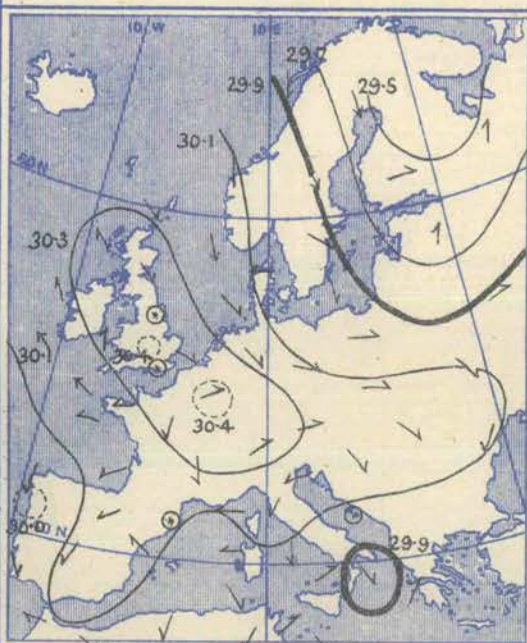
Temperature and Weather.

8 a.m.

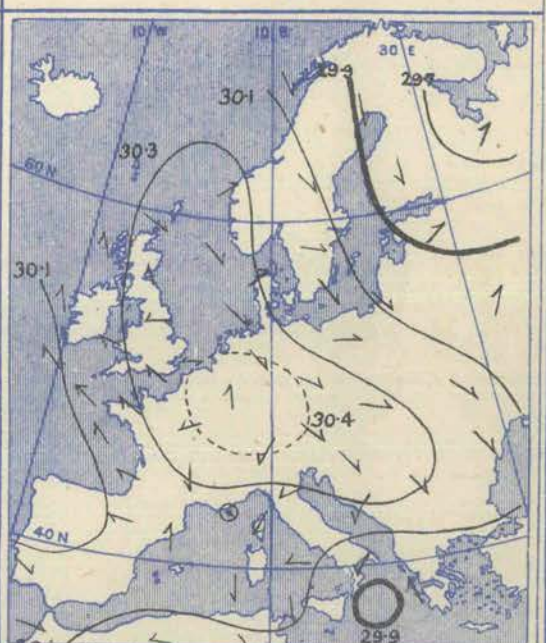


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine over the greater part of our Islands and the Continent, but foggy or misty in the eastern and central parts of Great Britain, and rainy at Haparanda and Christiansund. Dull over Russia and the eastern parts of Germany and Austria, with rain at Archangel. A little rain falling later in Ireland and the extreme north of Scotland, as well as in the west of Norway, and in several parts of Germany and northern Russia. Thunderstorm occurring at Sfax.

Temperature fallen very generally, but risen several degrees in Ireland. Morning readings highest, 80° at Athens, 77° at Malta, and Nemours, and 75° at Algiers; above 70° at several of the Mediterranean stations. Lowest, (1) 34° at Haparanda, 38° at Karlstad, and 39° at Bodö and Hernösand; (2) 40° at Wick and Bath, and 41° at Oxford (below 45° at most of our own northern and central stations); (3) 40° at Belfort, and 43° at Paris and Le Mans. Rising during day to 60° and upwards in most parts of England and Ireland, to 67° at Loughborough and to 68° in London. Exceeding 80° over a considerable portion of southern Europe, and reaching 86° at Croisette, and 88° at Bilbao.

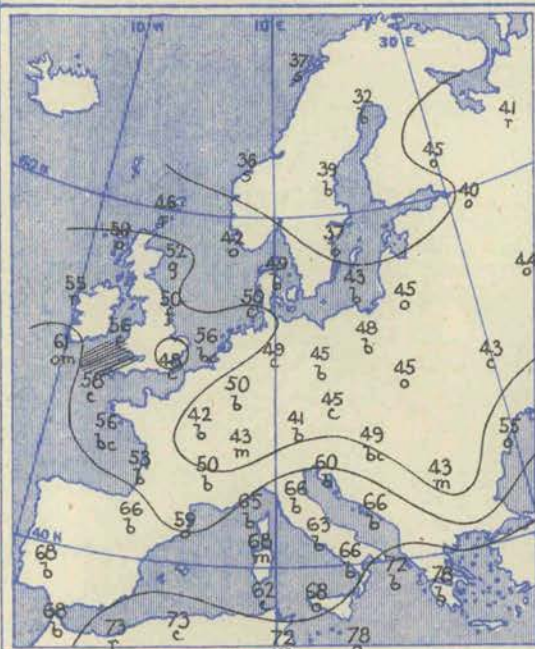
Wind light to moderate from the Eastward or North-Eastward in France; South-Easterly in the west and south of our Islands, and fresh in force on our extreme south-west coasts. Calm or variable over the central parts of Great Britain; light from the North-Westward on our east coasts and in Holland and Denmark, and moderate to strong from the same quarter in Scandinavia; light from the Westward in Germany and Austria, South-Westerly over the northern parts of Russia. Variable in Italy; light from between East and North over the Spanish Peninsula and the extreme south of France. South-Easterly winds setting in later over the whole of our Islands and blowing strongly on our south-west coasts.

Barometer highest, 30.4 ins. and upwards to 30.2 ins. in an anticyclone covering the whole of our Islands, France, the Netherlands, Germany, and Austria. Lowest, 29.5 ins. and less in a large cyclonic system over Lapland and the White Sea; 29.9 ins. and less in a shallow disturbance off the south of Italy. Anticyclone drifting very slowly eastwards during day, and barometer falling on all our own western coasts; cyclonic system in far north travelling eastwards; disturbance over the south of Italy remaining almost stationary.

Saturday, 20th September.

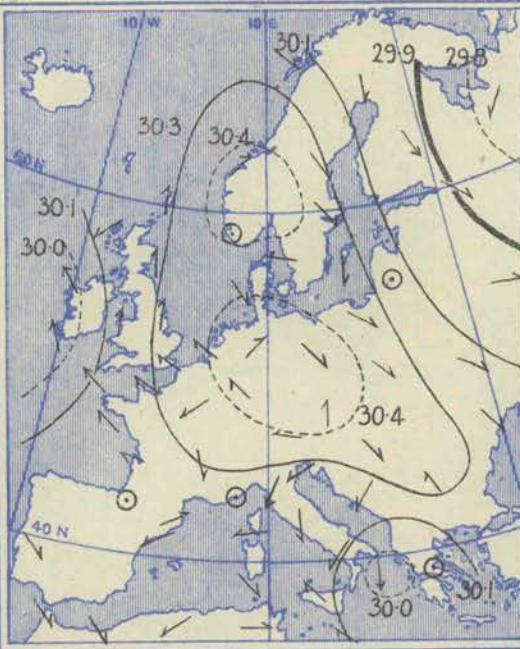
Temperature and Weather.

8 a.m.

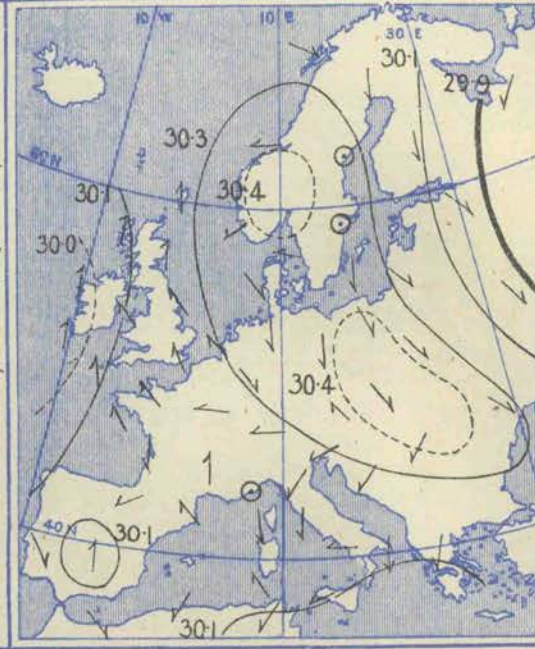


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the south and east of England and the greater part of the Continent, but dull at most of the Russian stations, with rain at Archangel; snow falling in the west of Norway. Cloudy and misty in all the more western and northern parts of the United Kingdom, with rain on our extreme north and north-west coasts. Rain falling later in the west and north of our Islands generally; solar and lunar halos seen over the southern parts of England.

Temperature risen in most of the western and southern countries, but fallen elsewhere. Morning readings highest, 78° at Patras and Malta, 75° at Athens, and 73° at Oran and Algiers; above 65° in most parts of southern Europe—and a trifle above 60° on the south-west coasts of Ireland. Lowest, 32° at Haparanda, 33° at Uleaborg, and 38° at Christiansund and Karlstadt; below 45° over Germany and central France. Rising during day to 60° and upwards in many parts of the United Kingdom, to 66° at Jersey, and to 67° in London. Exceeding 75° in the west of France and over southern Europe generally, and reaching 84° at Palermo, and 88° at Madrid.

Wind light from the Eastward or North-Eastward over France; South-Easterly over England and Ireland, and fresh or strong in force on our extreme west and south-west coasts; light from the Southward in Scotland, and from the South-Westward in the west of Norway North-Westerly over Russia and the eastern parts of Germany and Austria. North-Easterly in Italy; variable over the Spanish Peninsula and the extreme south of France. Subsequently veering to the Southward in Ireland; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over Holland and Germany, and also over the southern parts of Norway; 30.2 ins. and upwards in an anticyclone covering the greater part of western, northern, and central Europe. Lowest, 29.8 ins. and less in a cyclonic system over northern Russia; 30.0 ins. and less in two other disturbances—one lying off the west of Ireland, and the other off the south of Italy. Depression off our own western coasts spreading slowly eastwards during day, and barometer falling over the whole of the United Kingdom.

GENERAL NOTES.

At the beginning of the week the barometer was highest in an area extending from the Atlantic over the greater part of France and Spain, and lowest in a cyclonic system of considerable size and depth (minimum readings below 28.7 ins.) with its centre near Hérnösand. With these conditions the winds over north-western, central, and a considerable part of northern Europe were Westerly or North-Westerly, with a gale over Denmark, the Baltic, and the south of Sweden; in Russia, however, they were South-Westerly or Southerly. Another large cyclonic area lay over Italy, the Adriatic, and the central parts of the Mediterranean, but this system was shallow, and the winds in its neighbourhood were therefore light and somewhat variable. Soon after the commencement of the week the northern disturbance moved away to the northward, but between the 15th and 17th another large cyclonic system advanced from the Atlantic, its centre skirting our own extreme northern coasts, and afterwards travelling across the south of

Scandinavia, and finally away to the north-eastward. During the progress of this depression the wind again blew very strongly from the Westward or North-Westward—at first in these Islands, and afterwards over northern Europe—the weather being very unsettled, with heavy falls of rain on our own extreme north and north-west coasts, and at some of the Scandinavian stations.

As the disturbance moved away a large anticyclone spread from the Atlantic over all the western countries, and for a time the wind became light and somewhat variable and the weather fine, with, however, nocturnal fogs and slight frosts in many of the inland districts. At the close of the week the anticyclone was moving eastwards, and a large but shallow area of low pressure was spreading over our western districts, the latter change being accompanied by freshening Southerly or South-Easterly winds and rain on most parts of our western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; — = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.)

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands; 4.38 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 224.

STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	22.4	- 2.1	26	- 3	WORKSOP	29.7	+ 2.9	34	+ 3	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	28.2	+ 1.5	32	+ 2	THURCASTON	36.7	+ 8.2	42	+ 9	SOUTHPORT	33.8	—	39	—
EDINBURGH	14.9	- 7.8	17	- 10	MARGATE	42.5	+ 8.7	49	+ 10	RHYL	43.2	—	50	—
MORPETH	19.8	—	23	—	BROADSTAIRS	44.9	—	52	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	15.8	—	18	—	EASTBOURNE	46.9	+ 8.2	54	+ 9	ABERDOVEY	44.1†	—	51†	—
YORK	25.4	- 1.6	29	- 2	BRIGHTON	43.7	+ 5.7	50	+ 6	TENBY	45.1	+ 10.3	52	+ 11
CROMER	40.2	—	46	—	WORTHING	46.4	—	53	—	NEWQUAY	51.7	+ 16.5	60	+ 19
LOWESTOFT	37.9	—	44	—	BOGNOR	44.0†	—	51†	—	TORQUAY	45.6	+ 9.0	53	+ 10
DUNMOW	43.4	—	50	—	WATERGATE	42.7	—	49	—	GUERNSEY	42.0†	+ 1.8	49†	+ 2
HOLLESLEY BAY	44.0	—	51	—	WESTBOURNE	39.5†	+ 2.1	45†	+ 3					
SHEFFIELD	34.8	—	40	—	VENTNOR HOSPITAL	43.5	+ 3.7	50	+ 4					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 39.]
Fourth Series.

WEEK ENDING SATURDAY, SEPTEMBER 27TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Values* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 230.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	43	59.8	50.6	55.0	5 above	Day-deg. 91	Day-deg. +36	Day-deg. 0	Day-deg. - 4	Day-deg. 1532	Day-deg. - 214	Day-deg. 660	Day-deg. + 82
	1. SCOTLAND, EAST	68	37	60.7	48.4	54.3	4 above	86	+24	0	- 4	1711	- 368	727	+102
	2. ENGLAND, N.E.	69	36	62.6	48.4	55.2	2 above	92	+21	0	- 2	2084	- 178	522	+ 10
	3. ENGLAND, EAST	76	36	65.2	47.6	56.0	2 above	98	+15	0	- 2	2475	-142	516	- 44
	4. MIDLAND COUNTIES	71	32	64.9	45.8	54.9	2 above	90	+16	0	- 3	2373	-204	523	- 48
	5. ENGLAND, SOUTH	77	41	65.8	50.5	57.8	2 above	111	+19	0	- 1	2612	-232	358	- 57
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	64	41	60.5	50.0	55.1	3 above	92	+24	0	- 2	2019	-174	483	+ 47
	7. ENGLAND, N.W.	69	34	63.1	48.4	55.4	2 above	94	+17	0	- 1	2224	-183	421	+ 4
	8. ENGLAND, S.W.	71	35	65.0	48.9	56.6	2 above	102	+18	0	- 1	2543	-111	324	+ 5
	9. IRELAND, NORTH	69	36	62.8	51.0	56.6	4 above	102	+33	0	- 2	2086	-235	339	- 31
	10. IRELAND, SOUTH	69	37	63.9	50.1	56.7	3 above	103	+25	0	- 1	2539	- 91	240	- 30
	— CHANNEL ISLANDS	70	50	65.3	55.0	59.9	2 above	125	+20	0	0	3001	- 37	99	- 24

DISTRICTS. (See p. 230.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 6	10ths of in. 5 less	192	+25	Ins. 33.0	- 1.6	10	-12	13	-14	938	- 41	26	- 1
	1. SCOTLAND, EAST	4	6	1 less	157	+14	18.4	- 4.1	13	-12	15	-14	983	-138	27	- 4
	2. ENGLAND, N.E.	3	2	4 less	134	+ 3	15.7	- 2.3	23	0	28	0	1070	- 35	30	- 1
	3. ENGLAND, EAST	1	less than ½	6 less	131	- 1	17.4	- 0.5	45	+10	55	+12	1370	- 38	36	- 1
	4. MIDLAND COUNTIES	3	2	4 less	131	+ 4	17.7	- 2.3	29	+ 5	35	+ 7	1140	- 18	33	- 1
	5. ENGLAND, SOUTH	2	1	6 less	128	+ 5	18.5	- 1.0	50	+15	61	+18	1380	- 71	38	- 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	14	3 more	167	+18	35.3	+ 0.1	15	-11	18	-13	1096	- 76	30	- 2
	7. ENGLAND, N.W.	3	4	5 less	157	+18	19.8	- 4.4	29	+ 4	35	+ 5	1275	+ 92	36	+ 3
	8. ENGLAND, S.W.	3	9	0 (average)	142	0	22.1	- 5.7	40	+ 8	48	+ 9	1333	- 92	38	- 3
	9. IRELAND, NORTH	5	9	2 more	188	+23	26.6	+ 1.3	26	+ 1	31	+ 1	1065	- 14	30	0
	10. IRELAND, SOUTH	4	8	0 (average)	150	- 1	24.2	- 4.5	32	+ 2	38	+ 3	1220	- 8	34	0
	— CHANNEL ISLANDS	4	7	1 less	147	+ 5	19.4	- 2.5	45	+ 6	54	+ 7	1506	-144	43	- 4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was generally fine and dry over our more eastern and southern districts, and during the latter half of the time this condition extended northwards and westwards also, thus superseding the overcast skies and frequent rain that had previously prevailed in those regions.

Temperature was above the mean, the excess ranging from 2° in most parts of the Kingdom to 4° in Scotland E. and Ireland N., and to 5° in Scotland N. The highest of the maxima, recorded, as a rule, on Monday, ranged from 77° in England S. and 76° in England E., to 68° in Scotland E., and 64° in Scotland W. The lowest of the minima occurred on Thursday, and varied from 32° in the Midland Counties, and 34° in England N.W., to 43° in Scotland N., and to 50° in the Channel Islands. During the earlier nights of the period the minima were decidedly high for the time of year, but in the latter part of the week they were low.

Rainfall exceeded the mean in Scotland W. and Ireland N., and just equalled it in England S.W. and Ireland S. Elsewhere the fall was less than the normal, especially in the south and east of England.

Bright Sunshine differed a good deal in the various parts of the Kingdom, but was in excess of the mean both in Ireland and almost all parts of England. In the extreme north-east of the latter country it only just equalled the normal, while in Scotland it was much in defect. The percentage of the possible duration ranged from 61 in England S., 55 in England E., and 54 in the Channel Islands, to 38 in Ireland S. and to between 13 and 18 in Scotland.

Barometer and Wind. During the earlier half of the period depressions of no great depth were observed in the far west of our Islands, and the barometer being highest to the eastward of the North Sea, the resulting wind current was consequently Southerly. By Thursday, however, the high-pressure area had been transferred to England, and the cyclonic disturbances disappeared from the immediate neighbourhood of our Islands. With this change the wind became very variable over the more central districts, and North-Easterly in the south and south-east, while in the extreme west and north light Southerly and South-Westerly winds prevailed.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N.	Sumburgh Head	57	43	53.0	47.7	50.2	+ 0.9	57	0	7	0.48	- 0.37	*	*	*	*
	Stornoway	61	48	50.7	51.3	55.3	+ 5.7	93	0	5	0.70	- 0.33	10.6	- 12.9	13	- 16
	Wick	62	46	57.6	50.1	53.7	+ 3.5	82	0	6	0.35	- 0.30	*	*	*	*
	Lairg	69	43	64.6	49.1	56.5	+ 7.7	102	0	6	0.25	- 0.50	*	*	*	*
	Glencarron	65	48	61.2	52.2	56.5	+ 7.2	102	0	5	0.92	- 0.94	*	*	*	*
	Fort Augustus	64	44	61.7	51.2	56.2	+ 5.3	99	0	5	0.16	- 0.79	9.3	- 8.0	11	- 9
	Fort William	64	49	60.6	52.9	56.6	+ 4.8	102	0	6	1.24	- 0.47	8.9	- 12.1	11	- 15
1. SCOTLAND, E.	Nairn	65	41	63.7	49.9	56.5	+ 5.3	102	0	6	0.33	- 0.24	*	*	*	*
	Aberdeen	67	39	59.3	49.9	54.4	+ 3.0	87	0	5	0.66	- 0.01	12.7	- 14.3	15	- 17
	Braemar	61	37	57.1	46.0	51.3	+ 3.7	65	0	4	0.54	- 0.25	*	*	*	*
	Ochertyre	67	43	59.6	47.6	53.3	+ 2.2	79	0	3	1.49	+ 0.66	*	*	*	*
	Leith	68	39	63.0	49.3	55.3	+ 2.9	97	0	3	0.13	- 0.35	*	*	*	*
	Marchmont	65	40	61.6	47.6	54.3	+ 4.0	86	0	4	0.37	- 0.36	17.8	- 6.5	21	- 8
2. ENGLAND, N.E.	Alnwick Castle	68	39	61.3	47.7	54.2	+ 2.7	85	0	3	0.44	- 0.21	*	*	*	*
	Durham	67	36	63.0	47.3	54.8	+ 2.7	90	0	4	0.20	- 0.35	23.6	- 1.7	28	- 2
	Shields	67	42	61.6	49.1	55.1	+ 2.8	92	0	3	0.11	- 0.42	*	*	*	*
	Scarborough	65	38	61.3	48.0	54.6	+ 1.3	88	0	2	0.09	- 0.51	18.4	—	22	—
	Spurn Head	64	48	61.3	52.3	56.6	+ 2.0	102	0	1	0.01	- 0.44	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	69	38	66.3	46.2	55.8	+ 2.2	97	0	2	0.04	- 0.46	28.0	—	34	—
	Hillington	70	36	66.1	45.1	55.1	+ 1.2	92	0	1	0.02	- 0.59	38.2	+ 9.4	46	+ 11
	Yarmouth	63	45	61.4	51.4	56.2	+ 1.4	99	0	1	0.01	- 0.62	*	*	*	*
	Geldeston	66	37	64.0	47.4	55.3	+ 0.3	93	0	2	0.03	- 0.53	41.7	+ 8.4	50	+ 10
	Cambridge	76	36	69.5	45.9	57.1	+ 2.3	106	0	0	0.00	- 0.49	41.2	+ 9.5	50	+ 12
4. MIDLAND COUNTIES	Felixstowe	66	43	64.3	51.3	57.7	+ 3.3	110	0	1	0.02	—	56.3†	—	68†	—
	Rothamsted	71	36	65.3	44.5	54.4	+ 1.1	87	0	1	0.02	- 0.61	43.7	+ 13.0	53	+ 15
	Harrogate	68	41	62.7	47.7	54.8	+ 2.9	90	0	3	0.38	- 0.31	27.8	—	34	—
	Bawtry (Hesley Hall)	69	32	64.6	45.1	54.4	+ 1.0	87	0	2	0.04	- 0.50	*	*	*	*
	Loughborough	69	35	66.6	44.3	54.9	+ 0.8	90	0	3	0.07	- 0.49	*	*	*	*
5. ENGLAND, S.	Colly Weston (Stamford)	71	40	66.7	45.6	55.7	+ 1.6	96	0	2	0.04	- 0.53	*	*	*	*
	Cheadle	67	43	63.1	47.7	55.0	+ 3.0	91	0	3	0.28	- 0.45	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	66	43	63.9	48.3	55.7	+ 2.5	96	0	3	0.20	- 0.40	13.4	—	16	—
	Churchstoke	67	36	64.2	44.6	53.9	+ 1.9	83	0	3	0.59	- 0.06	38.5	+ 9.3	46	+ 11
	Hereford	67	36	65.1	44.1	54.1	+ 0.4	85	0	3	0.35	- 0.26	*	*	*	*
6. SCOTLAND, W.	Cirencester	66	39	64.6	45.1	54.4	+ 1.4	87	0	2	0.14	- 0.53	38.5	+ 9.1	46	+ 11
	Oxford	71	38	67.3	45.6	55.9	+ 1.6	97	0	2	0.04	- 0.54	40.4	+ 9.6	49	+ 12
	London	77	41	60.1	47.3	57.7	+ 1.9	110	0	1	0.01	- 0.53	35.1†	+ 8.7†	42†	+ 11†
	Swarraton (Alresford)	69	47	65.7	50.8	57.9	+ 4.7	111	0	1	0.02	- 0.68	*	*	*	*
	Dungeness	68	41	65.6	49.9	57.4	+ 0.9	108	0	1	0.06	- 0.57	56.7	—	68	—
7. ENGLAND, N.W.	Hastings (St. Leonards)	66	45	64.6	51.7	57.8	+ 1.3	111	0	1	0.01	- 0.68	54.2	+ 17.8	65	+ 22
	Southampton	71	42	68.0	48.9	58.0	+ 2.0	112	0	2	0.03	- 0.65	44.5	+ 11.0	54	+ 13
	Portland Bill	65	49	63.7	54.0	58.6	+ 2.3	116	0	3	0.25	—	*	*	*	*
	Shaftesbury	66	47	63.8	51.0	57.1	+ 3.3	106	0	2	0.10	- 0.70	*	*	*	*
	Laudale (Loch Sunart)	62	47	60.9	52.3	56.4	+ 4.4	101	0	6	2.01	+ 0.34	*	*	*	*
8. ENGLAND, S.W.	Glasgow	63	45	59.7	51.1	55.2	+ 4.0	92	0	4	0.73	- 0.13	10.8	- 9.6	13	- 11
	Cally	63	43	61.0	49.0	54.7	+ 3.4	89	0	4	1.58	+ 0.53	*	*	*	*
	Douglas (Isle of Man)	64	41	61.1	47.7	54.1	+ 1.7	85	0	3	1.15	+ 0.27	18.4	- 12.1	22	- 15
	Newton Reigny	67	34	63.0	45.9	54.0	+ 2.7	84	0	3	0.31	—	24.9	—	30	—
	Stonyhurst	64	39	61.3	48.0	54.3	+ 1.9	86	0	3	0.45	- 0.70	27.0	+ 0.5	33	+ 1
9. IRELAND, N.	Blackpool	66	39	62.7	47.9	54.9	+ 1.1	90	0	5	0.44	- 0.42	27.0	+ 1.6	33	+ 1
	Manchester (Prestwich)	67	37	63.4	47.4	55.0	+ 2.1	91	0	3	0.43	- 0.47	13.4	—	16	—
	Liverpool Obsy. (Bidston)	64	43	62.1	49.3	55.4	+ 1.1	94	0	3	0.17	- 0.58	30.5	—	37	—
	Chester	68	38	64.6	47.1	55.4	+ 0.5	94	0	3	0.17	—	*	*	*	*
	Llandudno	69	46	66.0	50.5	57.9	+ 2.7	111	0	3	0.44	- 0.31	36.6	+ 10.3	44	+ 13
10. IRELAND, S.	Holyhead	64	47	61.7	51.3	56.3	+ 1.4	100	0	3	0.90	+ 0.13	*	*	*	*
	Llandovery	71	35	68.0	45.7	56.3	+ 3.2	100	0	3	0.77	- 0.30	*	*	*	*
	Pembroke	68	50	63.1	52.9	57.8	+ 2.3	111	0	3	1.37	+ 0.57	36.4	+ 4.9	44	+ 6
	Clifton	69	45	66.0	50.4	57.8	+ 3.2	111	0	3	0.48	- 0.32	*	*	*	*
	Bath	69	36	66.4	45.6	55.5	+ 0.4	95	0	2	0.17	- 0.53	35.6	—	43	—
CHANNEL ISLANDS	Arlington (N. Devon)	68	43	64.7	48.4	56.2	+ 2.2	99	0	2	0.90	- 0.28	*	*	*	*
	Cullompton	69	38	65.8	45.1	55.0	+ 0.4	91	0	3	1.22	+ 0.46	43.4	+ 13.0	52	+ 16
	Falmouth	63	49	61.2	52.7	56.3	+ 1.0	104	0	4	0.94	- 0.08	40.0	+ 5.6	48	+ 7
	Plymouth	69	45	65.0	50.2	57.2	+ 1.7	106	0	4	1.04	+ 0.24	42.4	+ 9.6	51	+ 12
	Malin Head	67	49	63.1	52.3	57.4	+ 4.1	108	0	5	0.88	+ 0.16	*	*	*	*
9. IRELAND, N.	Edenfel (Omagh)	68	40	63.0	49.4	55.9	+ 5.0	97	0	6	0.89	+ 0.09	*	*	*	*
	Blacksod Point	65	49	61.3	55.0	58.0	+ 3.7	112	0	4	1.40	+ 0.43	*	*	*	*
	Markree Castle	69	36	63.9	49.3	56.3	+ 4.4	100	0	5	0.49	- 0.41	21.2	- 2.5	26	- 3
	Armagh	69	44	64.2	49.9	56.7	+ 4.8	103	0	5	0.62	- 0.02	29.8	+ 4.3	36	+ 5
	Donaghadee	64	45	61.3	50.0	55.4	+ 2.4	94	0	6	1.27	+ 0.62	*	*	*	*
10. IRELAND, S.	Dublin	69	44	64.1	49.8	56.6	+ 2.4	102	0	3	0.39	- 0.16	36.3	+ 4.9	44	+ 6
	Parsonstown	69	38	65.6	49.3	57.1	+ 4.5	106	0	4	0.33	- 0.33	31.9	+ 3.6	38	+ 4
	Kilkenny	67	37	64.6	47.9	55.9	+ 2.6	97	0	3	0.74	+ 0.11	*	*	*	*
	Roche's Point	64	46	61.0	52.4	56.5	+ 1.4	102	0	6	0.58	- 0.28	*	*	*	*
	Valencia	67	46	63.1	53.1	57.9	+ 2.6	111	0	5	1.83	+ 0.77	27.6	- 1.7	33	- 2
CHANNEL ISLANDS	Killarney	68	43	65.1	49.7	57.0	+ 3.0	105	0	3	1.14	+ 0.17	*	*	*	*
	Foynes	69	39	64.0	48.6	55.9	+ 2.1	97	0	3	0.49	- 0.23	*	*	*	*
	Scilly (St. Mary's)	65	53	63.9	55.1	59.3	+ 2.0	121	0	4	0.84	+ 0.07	45.6	—	55	—
	Jersey	70	50	66.7	54.9	60.5	+ 1.8	130	0	4	0.46	- 0.30	47.6	+ 8.3	57	+ 10

Stations Marked *Al* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

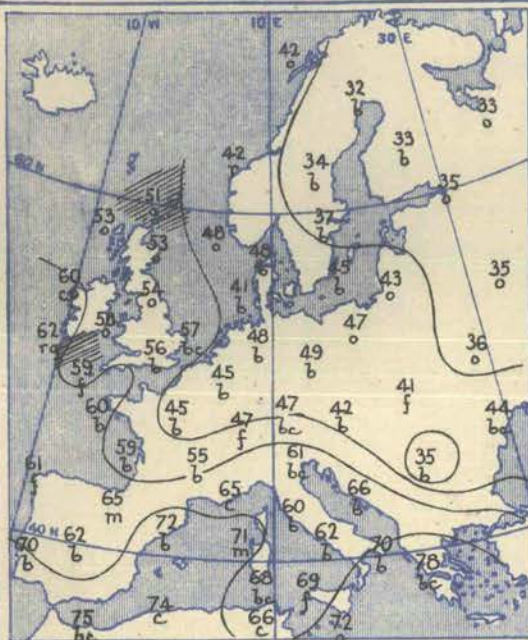
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 21st September.

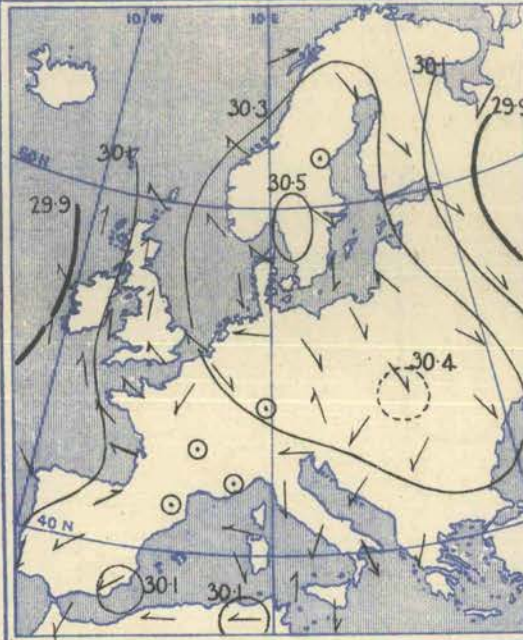
Temperature and Weather.

8 a.m.

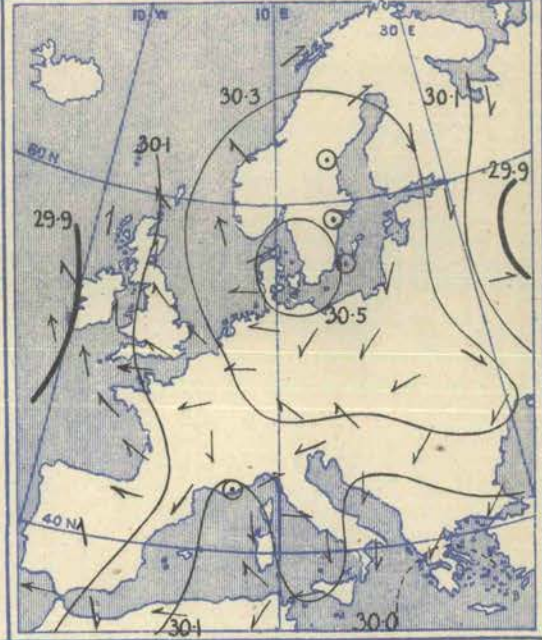


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy over the western parts of the Kingdom and at Christiansund; dull in the north, fine in the east; very fine over the greater part of the Continent, but overcast in central Russia. Heavy rain later in the west and south-west of Ireland (1.2 ins. at Valencia), and smaller quantities in the other parts of the Kingdom, excepting the east and south-east of England; none at the Continental stations excepting Brest.

Temperature risen considerably over western Europe, fallen over Russia and eastern Germany. Morning readings highest, 75° at Patras, 74° at Oran, 72° at Algiers; above 60° in the south of France, at Portland, and in several parts of Ireland. Lowest, 32° to 35° over the northern half of Russia and at Karlstad, below 50° over Germany, the eastern shores of the North Sea, and the central parts of France. Rising later to between 60° and 70° over many parts of the British Isles, to 75° at Lorient, 88° at Rochefort and at Biskra.

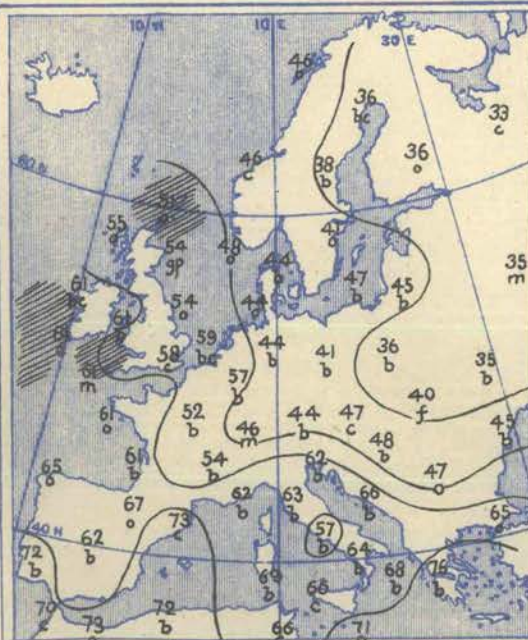
Wind North-Easterly to North-Westerly over Russia; very light and anticyclonic over Scandinavia, the Baltic, and central Europe; South-Easterly to Southerly over the British Islands, and freshening at our western stations. Blowing very freshly in the latter districts later, and freshening from South-West over Scandinavia; very little change elsewhere.

Barometer highest, 30.5 ins. and more to 30.3 ins. in a large anticyclone covering northern, central, and a good deal of western Europe. Lowest, about 29.9 ins. both over the north-east of Russia and off the west of Ireland; 30.1 ins. over the Mediterranean. Falling slowly later at our western stations, and Russian low-pressure area moving southwards; rising a little over the south of Sweden.

Monday, 22nd September.

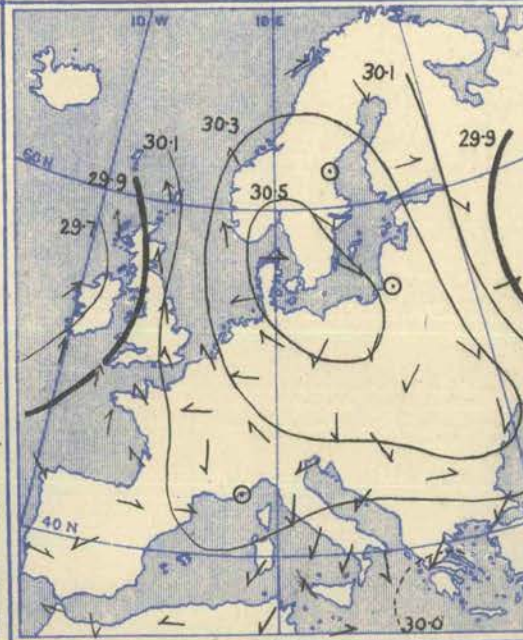
Temperature and Weather.

8 a.m.

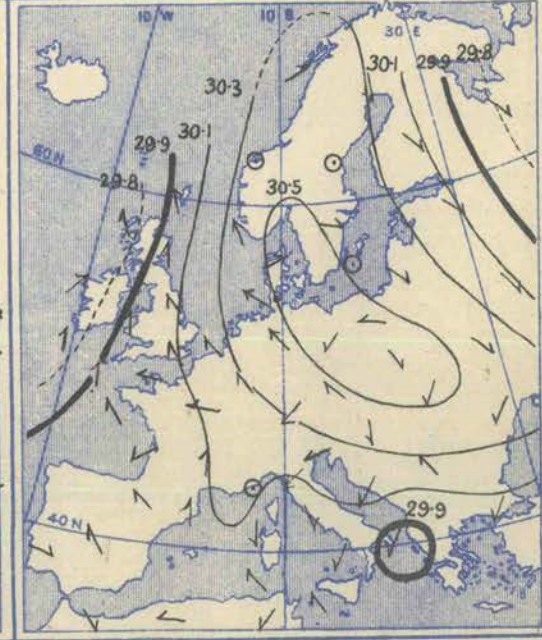


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still very fine over southern, central, and the greater part of northern Europe, cloudy and hazy over Russia, temporarily fine over Ireland, showery over the Irish Sea and east of Scotland. Much rain at the Irish Sea stations later, and smaller quantities at Bodø, all our northern and western stations, and in the west of France; thunder and lightning at Jersey and Holyhead.

Temperature little different from that of Sunday. Morning readings highest, 76° at Patras, 75° at Nemours, and Barcelona, above 65° at most Mediterranean stations, as well as along the west coast of France and the south and west coasts of our Islands. Lowest, 32° at Helsingfors and Kharkov, and below 36° over the greater part of Russia; 44° on the Danish coast, 41° at Berlin. Rising later to between 60° and 70° over our Islands generally, 77° in London, 79° at Rochefort, 86° at Annale and Madrid, 90° at Biskra.

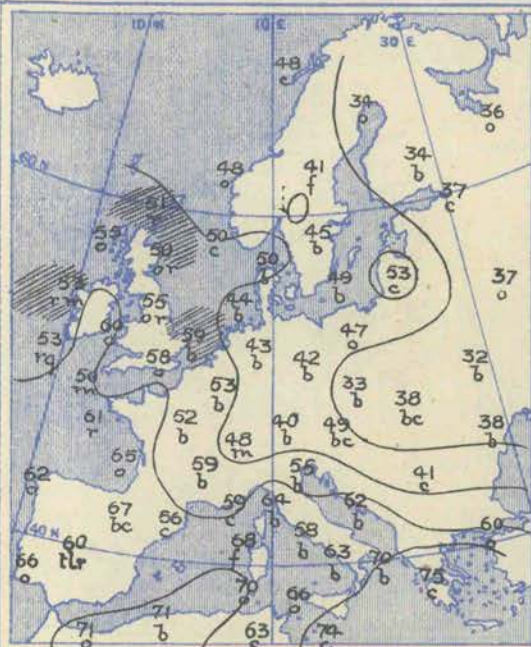
Wind strong Southerly on our western coasts, moderate to fresh South-Easterly over England and the North Sea; light and anticyclonic over the greater part of the Continent. Subsiding somewhat in the west later, but freshening from North-East at Leghorn; very little change elsewhere.

Barometer in morning highest, 30.5 ins. and more to 30.3 ins. in the large anticyclone covering northern and central Europe. Lowest, 29.9 ins. at Blackod Point, and 29.87 ins. at Moscow. Gradients rather steep for Northerly winds in Russia, and for Southerly in the west and south of the British Islands. Beginning to rise in the west of our Islands later, Very little change elsewhere.

Tuesday, 23rd September.

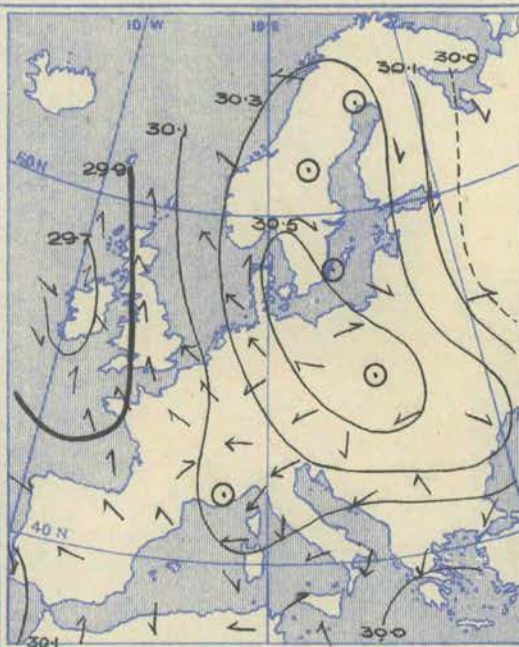
Temperature and Weather.

8 a.m.

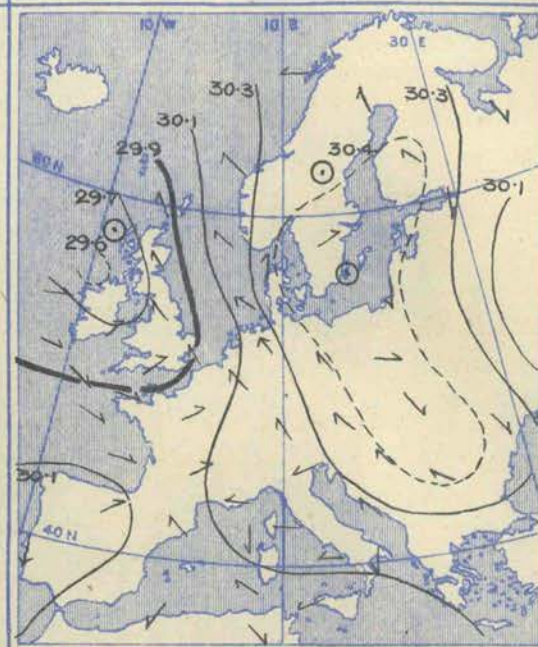


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine and bright over northern, central, and southern Europe generally, but foggy or hazy in a few places; dull generally over the British Islands and the north and west of France, with rain in several localities. Rain later in all the last-named regions, heaviest in the west, but remaining fine over the greater part of the Continent; thunder and lightning at Pembroke.

Temperature changed very irregularly—fallen decidedly in the west of Ireland. Morning readings highest, 75° at Patras, 71° on the north coast of Algeria, 70° at Cagliari and at Bilbao, 60° at many of our own southern and western stations. Lowest, 32° at Kharkov, 34° at the north of the Gulf of Bothnia, 36° to 37° over the greater part of Russia and Poland, 39° at Karlstad. Rising later to 71° (locally) in London, 75° at Gris Nez, Biarritz, and Lyons, 78° at Paris, 91° at Biskra.

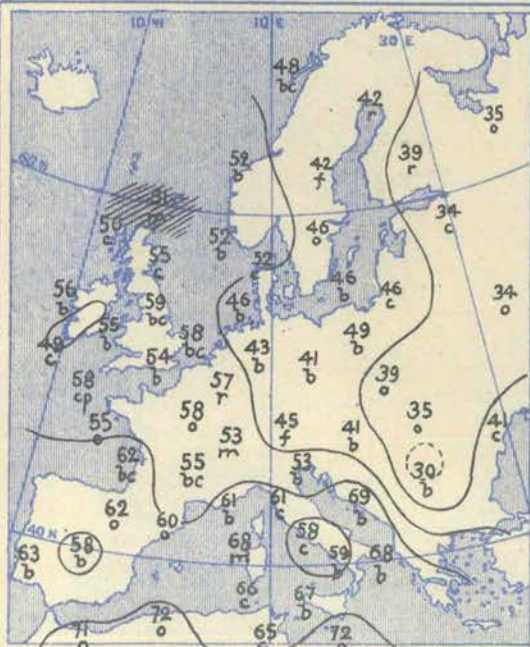
Wind still light and anticyclonic over central and northern Europe, but strong from East and South-East over the North Sea, and Southerly (variable in force) on most of our western coasts. A North-Westerly breeze, however, had set in on the extreme west coast of Ireland during the night, falling light and undecided at all our western stations later (calm in the west of Ireland), but no decided change elsewhere.

Barometer in morning highest, 30.5 ins. and more over the south of Sweden and north Germany, and exceeding 30.3 ins. all over northern and central Europe. Lowest, 29.7 ins. and less in a V-shaped depression over Ireland and off the west of Scotland. The latter system moving a little to the north-eastward later, spreading out, and beginning to break up. Pressure inclined to decrease over Europe generally.

Wednesday, 24th September.

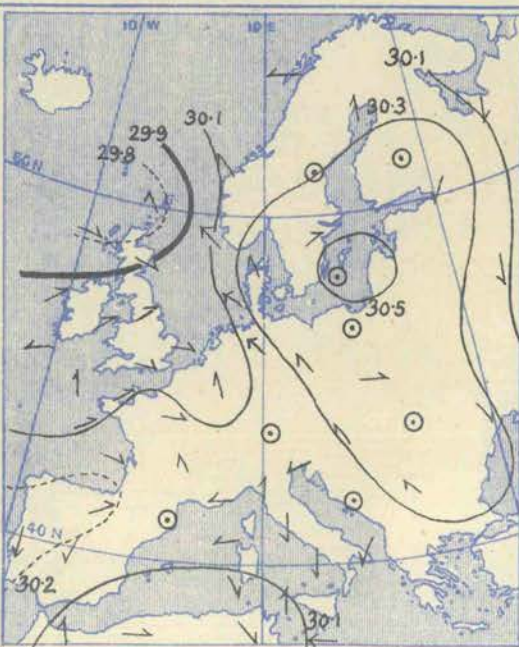
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning again fine over central and southern Europe, and over the British Islands also—except at Sicily; cloud thick over Russia and Poland; fog prevalent in Sweden. A little rain subsequently in Scotland, Ireland, and the south-west of England; fine elsewhere, except in the west of France and the south of Italy—in the last-named position the fall was very large.

Temperature in morning much lower in our Islands than on previous day, changed irregularly elsewhere. Morning readings highest, 72° at Malta, and 72° to 70° on the Algerian coast; 60° and more in the south of France. Lowest, (1) 30° at Hermanstadt, and below 40° all over Poland; 34° at Moscow and St. Petersburg, 35° at Archangel; (2) 42° at Uleaborg, 43° at Cuxhaven, 45° at Parsonstown. Rising later to between 60° and 67° over the British Islands, 70° at Gris Nez, 71° at Nice, 81° at Palermo, 88° at Biskra.

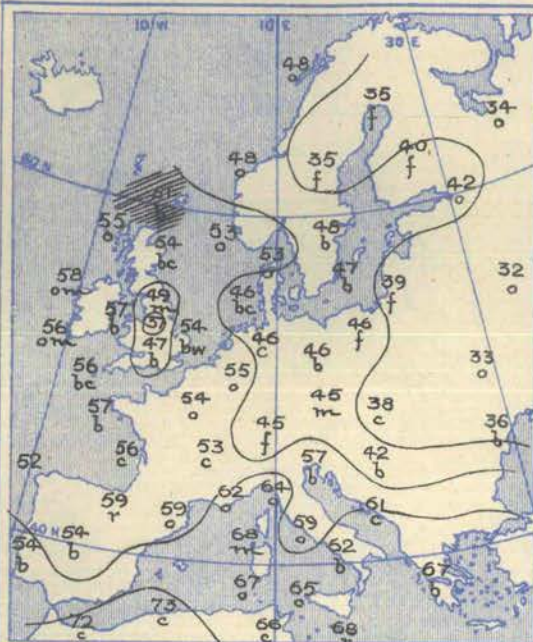
Wind light and very variable over all the inland parts of Continental Europe, England, and the greater part of Ireland; Southerly over the north of Ireland, South-Westerly (variable) in Scotland; South-Easterly, strong, at Skudesnaes and on the east shore of the North Sea. Falling light later in the latter regions; very little change elsewhere.

Barometer highest, 30.5 ins. at Wisby, and exceeding 30.2 ins. in a large anticyclone covering northern and central Europe. Lowest, 29.8 ins. and less in a depression off the north of Scotland; below 30.0 ins. in a very shallow system off the south of Ireland, and in a secondary off our own east coast; 30.1 ins. and less over northern Africa. Rising later over western Europe, and also over Russia.

Thursday, 25th September.

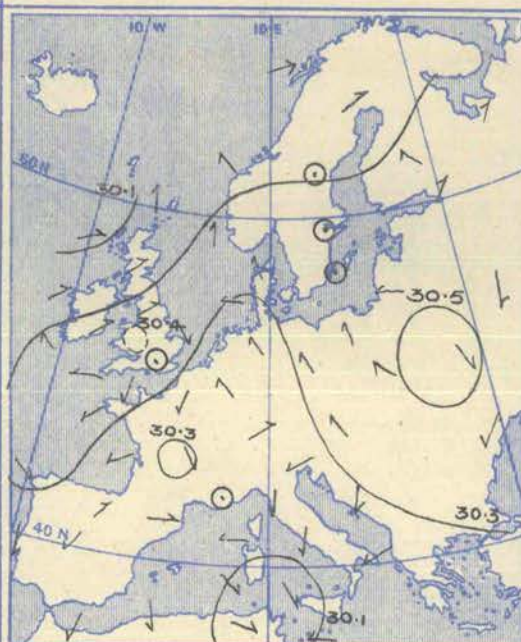
Temperature and Weather.

8 a.m.

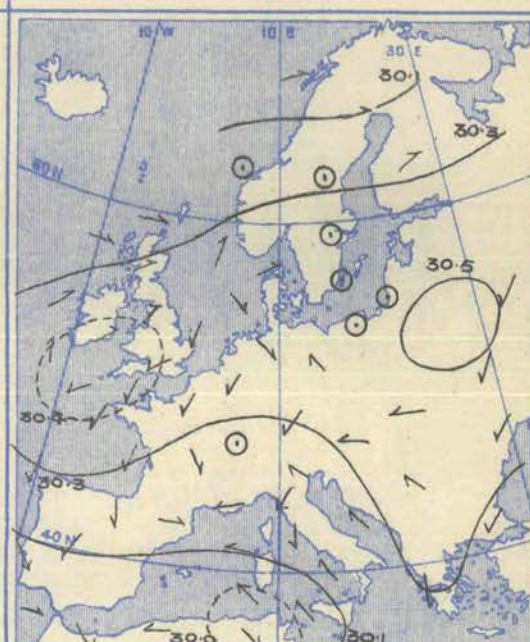


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but with fog in many places. Dull on our extreme north-west coasts, with rain in the north of Ireland; dull also over the central and southern parts of France, in the west of Norway, and over the greater part of Russia; rain falling at Belfort and Biarritz. Slight rain falling later in the most parts of Ireland and the west and north of Scotland, and larger quantities at some of the French stations; thunderstorm occurring at Algiers.

Temperature fallen over western and northern Europe generally, but risen in Ireland and the north of Scotland. Morning readings highest, 75° at Algiers, 72° at Nemours, 69° at Oran, and 68° at Brindisi and Malta; above 65° at most of the Mediterranean stations. Lowest, 32° at Moscow, 33° at Kiev, and 34° at Archangel; below 40° in many parts of Sweden and Russia, and also in some parts of central England. Rising during day to 65° and upwards at most of the English stations, and to 60° at Loughborough; exceeding 70° over southern Europe generally, and reaching 81° at Madrid and Palermo. Slight ground frost occurring over central England at night.

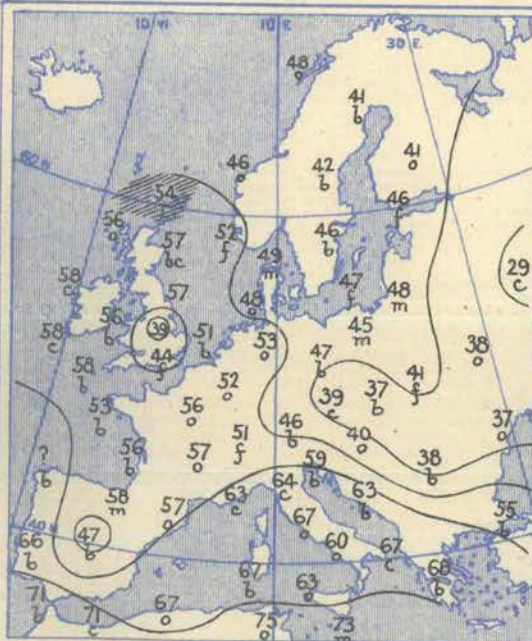
Wind light from the North-Eastward over the Channel and the north of France, but from the South-Westward or Southward in all the more northern parts of the United Kingdom. South-Easterly in Denmark, Germany, and Austria; calm in Sweden; variable in Russia. Light from the Northward over Italy and the Spanish Peninsula; variable in the south of France. No important change occurring during day.

Barometer highest, 30.5 ins. and upwards over western Russia; 30.4 ins. and upwards over central England; 30.2 ins. and upwards in an anticyclone covering nearly the whole of Europe. Lowest, 30.1 ins. and less in two shallow areas—one lying off the north-west of Scotland, and the other over the central parts of the Mediterranean. No decided change occurring during day, but low-pressure system off north-west of Scotland travelling north-eastwards towards the Norwegian coasts.

Friday, 26th September.

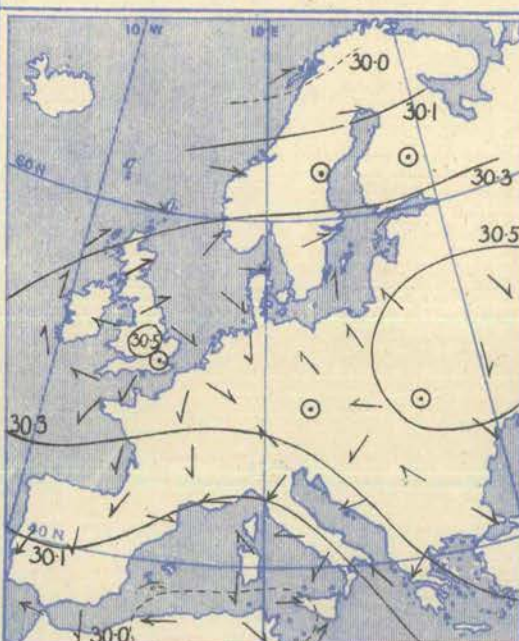
Temperature and Weather.

8 a.m.

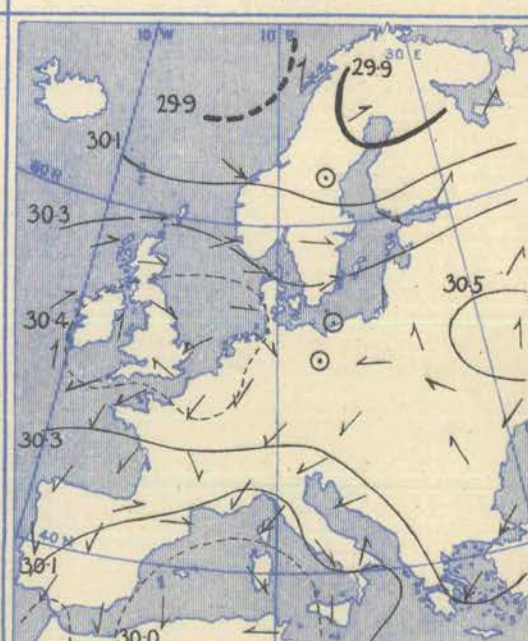


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine all over central Russia, Germany, and France, but not so fair as of late over the Mediterranean and many parts of southern Europe; fine, but foggy, over England, cloudy in Ireland and Scotland, overcast in Norway. Rain later in the far north of our Islands and on the Continent, as well as in Algeria and various parts of the Mediterranean; none elsewhere.

Temperature changing irregularly. Morning readings highest, 75° at Tunis, 71° at Oran, 68° at Patras, 67° at Brindisi, and above 60° over the Mediterranean generally; much above 50° on all the coasts of the British Islands, not inland. Lowest, (1) 29° at Moscow, 38° at Odessa, 40° at Breslau, 40° at Prague; (2) 39° at Loughborough and Bath, 41° at Oxford. Rising later to between 60° and 69° over the British Islands, to 70° at Rochefort, 73° at Perpignan, 77° at Croisette and Cagliari, 84° at Palermo.

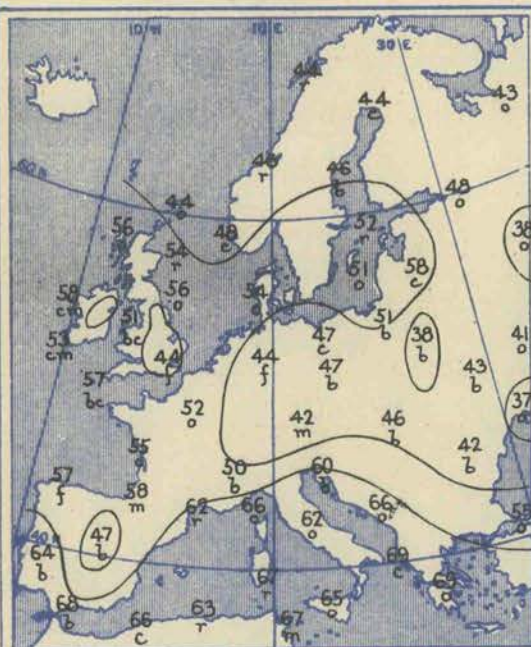
Wind exceedingly light and variable all over the central parts of Europe, England, and the south of Ireland; Southerly to South-Westerly moderate in the north-west and north; Easterly and North-Easterly in the south. Falling light later on our north-western coasts, but very little change elsewhere.

Barometer in morning highest, 30.5 ins. and more, to 30.3 ins. in a complex anticyclone stretching from west to east over all the central parts of Europe (including the British Islands). Lowest, 29.98 ins. at Bodó on the one hand, 30.0 ins. and less over Tunis and the neighbouring parts of the Mediterranean on the other. The Russian portion of the anticyclone moving southwards later, and the low-pressure areas, both in the extreme south and north, spreading.

Saturday, 27th September.

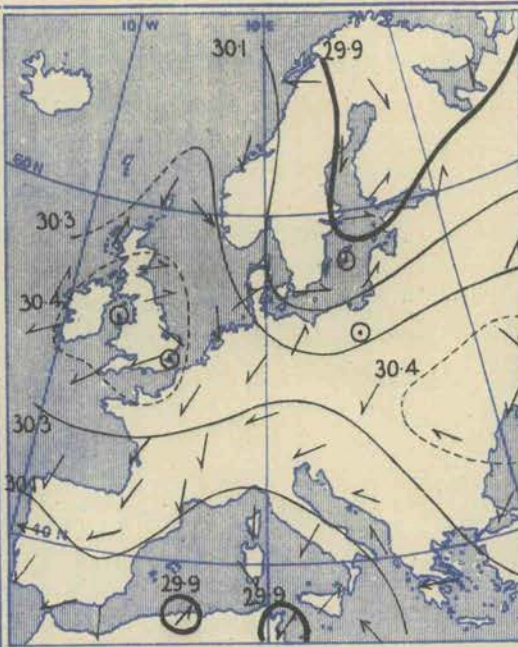
Temperature and Weather.

8 a.m.

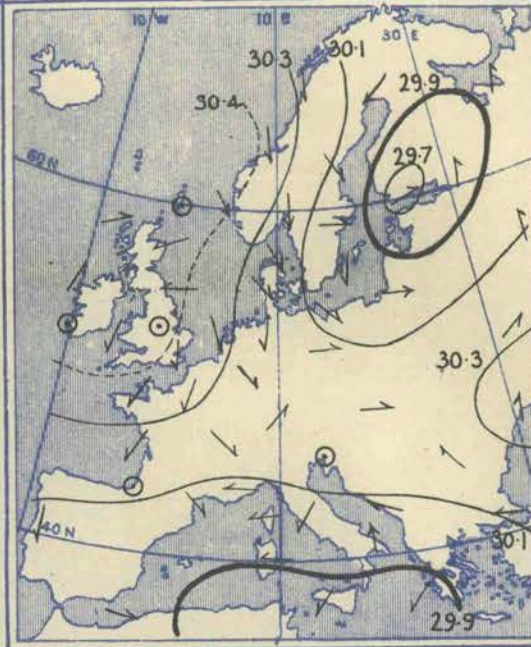


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning, though still fine and bright in many places, more cloudy as a whole, and less settled generally than of late. Fog and haze very prevalent over England and the Netherlands. Rain in the north-west of Norway, at Perpignan and Algiers; decided rain later over the southern side of the Mediterranean, and smaller quantities sporadically over different parts of the Continent. Slight falls in Scotland.

Temperature risen over Russia, changed little and irregularly elsewhere. Morning readings highest, 69° at Patras and Brindisi, and above 60° over the Mediterranean generally, above 50° on the western and northern coasts of France, and at the coast stations of the British Islands. Lowest, 32° at Odessa, 38° over central Russia and at Warsaw; 44° at Belfort, London, and Loughborough, and below 50° over many parts of central England. Rising later to 69° at Oxford and in London, 66° at Paris, 71° at Nice, 78° at Malta, 79° at Biskra.

Wind (1) Northerly strong in the west and south of Norway, Westerly to South-Westerly and light in north Germany; (2) very faint and anticyclonic over the British Islands, and in the south of Russia; (3) North-Easterly to Northerly over France and the Mediterranean, and Italy. Moderating in force later on the west coast of Norway, and falling very light at the Mediterranean stations.

Barometer in morning highest, 30.4 ins. and more in two anticyclones, one over the British Islands, the other over the south of Russia. Lowest, 29.9 ins. and less in a complex, but not deep, depression over the north of Africa, and 29.8 ins. at Uleaborg. The northern low-pressure system moving south-eastwards later, growing deeper and becoming more clearly defined; that in the south spreading out and becoming less definite.

GENERAL NOTES.

During the early part of the week a large area of high-pressure covered the greater part of northern and central Europe, the highest portion of the system being situated, as a rule, over Denmark, eastern Germany, and the south of Sweden. Light anticyclonic breezes and fine weather consequently prevailed in those regions, with temperature rather below the average for the time of year. In our Islands the weather was affected, at first slightly, but afterwards to an increasing extent by a large, but somewhat shallow cyclonic disturbance, which advanced very slowly from the Atlantic. The approach of this depression was marked by freshening South-Easterly and Southerly winds on most of our coasts, with heavy rain in the west, and less decided falls in all other parts of the kingdom. By 8 a.m. on the 23rd, the centre of the

disturbance had reached the north-west of Ireland, and in the course of the next 24 hours, the system moved northwards along the west of Scotland. The Continental anticyclone now spread westwards over the United Kingdom, and the weather became more settled than for some time past, the days being fine and warm, but the nights cold and foggy, with slight ground frosts at many of the inland stations. Over northern Europe the conditions at the close of the week were influenced by a large cyclonic disturbance, which passed eastwards across the extreme northern parts of Scandinavia and Russia, the progress of the system being marked by freshening Westerly and North-Westerly winds in those regions, and by rain, the latter extending, though in a slight degree, over the northern parts of our own Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; — = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 230.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNES - - - - -	18.0	- 10.3	16	- 12	WORKSOP - - - - -	21.0	- 4.0	25	- 5	BOURNEMOUTH - - -	-	-	-	-
STRATHPEFFER SPA - -	10.4	- 15.1	13	- 18	THURCASTON - - - -	29.8	+ 3.0	36	+ 4	SOUTHPORT - - - -	24.9	-	30	-
EDINBURGH - - - - -	8.0	- 13.7	10	- 17	MARGATE - - - - -	51.9	+ 20.1	63	+ 25	RHYL - - - - -	34.7	-	42	-
MORPETH - - - - -	25.9	-	31	-	BROADSTAIRS - - - -	57.0	-	69	-	COLWYN BAY - - - -	-	-	-	-
NEWCASTLE-ON-TYNE -	20.5	-	25	-	EASTBOURNE - - - -	61.4	+ 24.6	74	+ 29	ABERDOVEY - - - -	43.6†	-	58†	-
YORK - - - - -	28.0	+ 2.0	34	+ 3	BRIGHTON - - - - -	55.8	+ 20.1	67	+ 24	TENBY - - - - -	38.1	+ 5.6	46	+ 7
CROMER - - - - -	42.5	-	51	-	WORTHING - - - - -	52.9	-	64	-	NEWQUAY - - - - -	38.7	+ 5.9	47	+ 7
LOWESTOFT - - - - -	46.1	-	56	-	BOGNOR - - - - -	51.0†	-	61†	-	TORQUAY - - - - -	42.7	+ 8.7	51	+ 11
DUNMOW - - - - -	48.6	-	59	-	WATERGATE - - - -	45.3	-	55	-	GUERNSEY - - - - -	41.1†	+ 4.1	49†	+ 5
HOLLESLEY BAY - - -	48.4	-	58	-	WESTBOURNE - - - -	42.1†	+ 7.4	51†	+ 9					
SHEFFIELD - - - - -	19.6	-	24	-	VENTNOR HOSPITAL -	46.5	+ 9.2	56	+ 11					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, OCTOBER 4TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 236.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	27	57.2	43.3	50.2	2 above	Day-deg. 56	Day-deg. +10	Day-deg. 0	Day-deg. - 6	Day-deg. 1588	Day-deg. - 204	Day-deg. 660	Day-deg. + 76
	1. SCOTLAND, EAST	66	23	55.4	43.5	49.3	0 average	51	- 1	0	- 7	1762	-369	727	+ 95
	2. ENGLAND, N.E.	61	40	54.8	46.3	50.4	1 below	59	+ 1	0	- 3	2143	-177	522	+ 7
	3. ENGLAND, EAST	63	32	55.5	44.7	50.0	3 below	56	-11	0	- 3	2531	-153	516	- 47
	4. MIDLAND COUNTIES	63	31	54.6	42.9	48.6	3 below	46	-14	0	- 5	2419	-218	523	- 53
	5. ENGLAND, SOUTH	65	35	54.8	45.2	49.9	4 below	55	-23	0	- 2	2667	-255	358	- 59
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	33	57.3	44.8	50.9	1 above	62	+ 4	0	- 3	2081	-170	483	+ 44
	7. ENGLAND, N.W.	63	30	55.9	43.4	49.5	3 below	53	-13	0	- 2	2277	-194	421	+ 2
	8. ENGLAND, S.W.	70	36	56.4	43.9	50.0	3 below	56	-16	0	- 2	2599	-127	324	+ 3
	9. IRELAND, NORTH	67	33	57.2	46.7	51.8	1 above	69	+11	0	- 3	2155	-224	339	- 34
	10. IRELAND, SOUTH	72	37	58.6	45.2	51.7	1 below	68	+ 2	0	- 2	2607	- 89	240	- 32
	- CHANNEL ISLANDS	66	42	57.8	50.1	53.8	3 below	83	- 9	0	0	3084	- 46	99	- 24

DISTRICTS. (See p. 236.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	10ths of in. less than ½	11 less	194	+22	33.0	- 2.7	27	+ 6.	34	+ 8	965	- 35	26	- 1
	1. SCOTLAND, EAST	4	2	6 less	161	+14	18.6	- 4.6	15	- 8	19	-10	998	-146	27	- 4
	2. ENGLAND, N.E.	5	3	2 less	139	+ 4	16.0	- 2.5	15	- 7	19	- 9	1085	- 43	30	- 1
	3. ENGLAND, EAST	2	1	5 less	133	- 2	17.5	- 1.0	27	- 1	34	- 1	1397	- 39	36	- 1
	4. MIDLAND COUNTIES	3	2	4 less	134	+ 4	17.9	- 2.7	19	- 4	23	- 5	1159	- 22	33	- 1
	5. ENGLAND, SOUTH	3	2	5 less	131	+ 5	18.7	- 1.5	15	-17	18	-21	1395	- 87	37	- 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	10 less	169	+15	35.4	- 0.9	23	- 1	29	- 1	1119	- 77	30	- 2
	7. ENGLAND, N.W.	1	less than ½	9 less	158	+15	19.8	- 5.3	24	+ 4	30	+ 5	1299	+ 96	36	+ 3
	8. ENGLAND, S.W.	1	1	8 less	143	- 3	22.2	- 6.6	35	+ 7	43	+ 9	1368	- 85	38	- 2
	9. IRELAND, NORTH	1	less than ½	8 less	189	+20	26.6	+ 0.5	20	- 3	25	- 4	1085	- 17	30	0
	10. IRELAND, SOUTH	2	2	6 less	152	- 3	24.4	- 5.1	29	+ 1	36	+ 2	1249	- 7	34	0
	- CHANNEL ISLANDS	4	4	5 less	151	+ 5	19.8	- 2.9	29	-14	36	-17	1535	-158	42	- 4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period differed considerably in the various districts, but was mostly fair in the north-west, west, and south-west, and somewhat unsettled in the south-east and east. In the latter regions slight drizzling rain was of rather frequent occurrence, but in the former many localities were quite rainless.

Temperature was below the mean in most districts—as much as 4° in England S.—but just equalled it in Scotland E., and was a little above it in Scotland N. and W., and in Ireland N. The highest of the maxima were registered either on Sunday or Wednesday, and varied from 72° in Scotland N. and Ireland S., and 70° in England S.W., to 61° in England N.E. Towards the end of the week the maxima were but little above 50°, and at some stations below that value. The lowest of the minima were recorded on Friday or Saturday, when the thermometer fell to 23° in Scotland E. (at Braemar), 27° in Scotland N., 30° in England N.W., and 31° in the Midland Counties; elsewhere the lowest readings ranged from 32° in England E., to 40° in England N.E., and to 42° in the Channel Islands.

Rainfall was less than the mean in all districts—especially over the north of Scotland, in Ireland, and the western half of England.

Bright Sunshine exceeded the normal amount in some western districts and in Scotland N., but was deficient elsewhere. The percentage of the possible duration ranged from 43 in England S.W., 36 in the Channel Islands and Ireland S., and 34 in England E. and Scotland N., to 19 in the north-eastern parts of Great Britain, and to 18 in England S.

Barometer and Wind. During the whole of this period the United Kingdom was under the influence of a large anticyclonic system, whose centre lay at first over or to the north-westward of Scotland, and subsequently over Scandinavia. The wind was mainly Northerly or North-easterly during the earlier days of the week, and afterward chiefly Easterly. The latter current blew freshly or strongly on our south-eastern and English Channel coasts, and on one occasion blew a strong gale in the Straits of Dover, but was moderate or light over the country as a whole.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
0. SCOTLAND, N.	Sumburgh Head	55	40	52.3	44.1	48.1	+ 0.2	43	0	2	0.03	- 0.87	*	*	*	*
	Stornoway	61	32	58.9	44.6	51.5	+ 3.2	67	0	0	0.00	- 1.08	18.6	- 3.9	24	- 5
	Wick	61	30	55.6	44.6	49.9	+ 0.7	55	0	2	0.02	- 0.65	*	*	*	*
	Lairg	72	28	61.7	42.6	51.9	+ 4.5	69	0	3	0.05	- 0.74	*	*	*	*
	Glencarron	61	32	57.1	41.8	49.2	+ 1.1	51	1	1	0.02	- 1.88	*	*	*	*
	Fort Augustus	62	27	57.1	42.0	49.3	+ 0.4	51	0	1	0.02	- 0.92	27.2	+ 10.9	34	+ 14
1. SCOTLAND, E.	Fort William	62	31	57.6	43.6	50.4	+ 0.1	59	0	2	0.04	- 1.66	36.2	+ 16.6	46	+ 21
	Nairn	63	29	57.4	41.7	49.3	- 0.1	52	1	5	0.16	- 0.40	*	*	*	*
	Aberdeen	59	32	54.6	45.7	50.0	+ 0.1	56	0	4	0.10	- 0.57	22.8	- 2.8	29	- 3
	Braemar	57	23	52.5	39.8	46.0	- 0.2	37	6	4	0.06	- 0.77	*	*	*	*
	Ochertyre	66	29	58.3	43.4	50.6	+ 1.2	60	0	1	0.01	- 0.86	*	*	*	*
	Leith	60	41	56.1	47.0	51.4	+ 0.2	66	0	4	0.21	- 0.26	*	*	*	*
2. ENGLAND, N.E.	Marchmont	58	36	53.7	43.6	48.5	- 0.1	46	0	5	0.35	- 0.41	9.5	- 13.3	12	- 18
	Alnwick Castle	55	41	53.4	46.1	49.6	- 0.4	53	0	5	0.24	- 0.44	*	*	*	*
	Durham	56	43	52.3	44.8	48.4	- 2.0	45	0	5	0.53	- 0.07	14.6	- 9.0	18	- 12
	Shields	55	44	53.3	46.6	49.9	- 1.2	55	0	5	0.16	- 0.41	*	*	*	*
	Scarborough	61	45	57.7	47.5	52.5	+ 1.0	74	0	5	0.23	- 0.42	9.0	—	11	—
	Spurn Head	59	44	56.1	48.9	52.4	- 0.4	73	0	4	0.38	- 0.09	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	60	40	55.8	43.7	49.6	- 1.6	53	0	5	0.50	- 0.03	23.8	—	30	—
	Hillington	60	32	56.9	40.7	48.6	- 3.6	52	4	4	0.20	- 0.44	38.6	+ 11.6	48	+ 45
	Yarmouth	60	43	55.6	48.4	51.9	- 1.2	69	0	2	0.02	- 0.62	*	*	*	*
	Geldeston	58	44	54.3	46.4	50.2	- 2.6	57	0	2	0.02	- 0.55	25.2	- 5.4	32	- 7
	Cambridge	63	35	58.5	41.3	49.7	- 3.0	57	2	0	0.00	- 0.51	32.2	+ 2.4	40	+ 4
	Felixstowe	58	45	54.5	47.4	50.9	- 1.6	62	0	2	0.13	—	14.6†	—	18†	—
4. MIDLAND COUNTIES	Rothamsted	58	37	53.4	43.8	48.5	- 3.0	46	0	1	0.02	- 0.63	18.3	- 11.0	23	- 14
	Harrogate	54	35	52.6	43.8	48.1	- 2.1	43	0	6	0.27	- 0.43	13.4	—	17	—
	Bawtry (Hesley Hall)	57	31	55.1	44.0	49.4	- 1.9	52	0	6	0.46	- 0.11	*	*	*	*
	Loughborough	59	40	55.0	44.3	49.5	- 2.6	53	0	4	0.49	- 0.11	*	*	*	*
	Colly Weston (Stamford)	60	36	57.0	43.1	49.8	- 2.0	55	0	4	0.16	- 0.42	*	*	*	*
	Cheadle	59	40	53.6	42.9	48.1	- 2.2	43	0	3	0.12	- 0.63	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	58	39	54.0	44.0	48.9	- 2.6	48	0	2	0.12	- 0.51	12.0	—	15	—
	Churchstoke	59	38	53.0	41.2	46.9	- 3.3	38	2	3	0.10	- 0.60	12.9	- 13.6	16	- 17
	Hereford	59	35	54.4	41.0	47.5	- 4.3	43	3	2	0.21	- 0.42	*	*	*	*
	Cirencester	63	38	55.1	42.6	48.7	- 2.5	47	0	1	0.13	- 0.57	23.0	- 4.5	29	- 5
5. ENGLAND, S.	Oxford	60	36	55.9	41.9	48.7	- 3.7	47	0	1	0.07	- 0.55	24.6	- 3.8	31	- 5
	London	61	42	55.0	45.9	50.3	- 3.4	58	0	5	0.08	- 0.49	9.14	- 14.44	114	- 184
	Swarraton (Alresford)	59	35	53.5	42.3	47.7	- 3.7	40	0	3	0.16	- 0.57	*	*	*	*
	Dungeness	59	44	55.6	49.4	52.4	- 2.5	73	0	4	0.49	- 0.17	12.3	—	15	—
	Hastings (St. Leonards)	59	40	53.7	46.3	49.9	- 4.6	55	0	3	0.33	- 0.41	20.7	- 12.6	26	- 16
	Southampton	65	39	56.3	44.4	50.2	- 4.0	57	0	3	0.22	- 0.50	13.0	- 17.5	16	- 23
	Portland Bill	62	40	56.3	46.0	51.0	- 3.2	63	0	3	0.08	—	*	*	*	*
6. SCOTLAND, W.	Shaftesbury	60	37	53.1	42.4	47.6	- 3.9	39	0	1	0.22	- 0.60	*	*	*	*
	Laudale (Loch Sunart)	69	33	60.1	43.5	51.6	+ 1.2	67	0	2	0.05	- 1.59	*	*	*	*
	Glasgow	61	37	55.5	46.7	51.0	+ 1.3	63	0	2	0.02	- 0.83	16.3	- 2.4	20	- 3
	Cally	59	36	56.1	42.4	49.1	- 0.8	50	0	0	0.00	- 1.05	*	*	*	*
	Douglas (Isle of Man)	62	43	57.3	46.6	51.8	+ 0.6	69	0	2	0.30	- 0.65	29.4	+ 1.6	37	+ 2
7. ENGLAND, N.W.	Newton Reigny	62	30	54.4	39.6	46.8	- 2.8	44	7	1	0.01	—	16.2	—	20	—
	Stonyhurst	60	36	54.9	43.2	48.9	- 1.9	48	0	3	0.02	- 1.13	30.1	+ 6.0	38	+ 7
	Blackpool	63	32	58.7	40.6	49.4	- 2.7	58	4	1	0.02	- 0.87	32.0	+ 7.8	40	+ 10
	Manchester (Prestwich)	60	34	55.3	42.6	48.8	- 2.4	48	0	2	0.07	- 0.83	18.8	—	24	—
	Liverpool Obs. (Bidston)	61	39	55.3	45.1	50.1	- 2.4	57	0	1	0.03	- 0.72	13.3	—	17	—
	Chester	62	37	57.1	43.1	49.9	- 2.8	55	0	2	0.03	—	*	*	*	*
	Llandudno	62	40	56.9	46.0	51.3	- 2.3	65	0	0	0.01	- 0.79	23.2	- 0.9	29	- 1
	Holyhead	59	43	54.7	47.0	50.7	- 2.7	61	0	1	0.02	- 0.83	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	36	56.0	41.0	48.3	- 2.9	48	3	2	0.12	- 1.03	*	*	*	*
	Pembroke	65	40	57.7	45.6	51.5	- 2.8	67	0	0	0.00	- 0.85	40.5	+ 11.7	51	+ 14
	Clifton	60	39	55.3	44.4	49.7	- 3.4	54	0	1	0.24	- 0.58	*	*	*	*
	Bath	61	38	55.9	41.7	48.6	- 4.4	47	1	1	0.21	- 0.51	20.3	—	25	—
	Arlington (N. Devon)	66	37	55.1	43.0	48.9	- 3.4	48	0	1	0.03	- 1.23	*	*	*	*
	Cullompton	62	36	56.3	42.0	48.9	- 3.5	48	0	0	0.00	- 0.81	26.0	- 1.5	33	- 2
	Falmouth	63	40	56.9	45.8	51.2	- 3.2	64	0	2	0.25	- 0.82	41.4	+ 9.8	51	+ 12
9. IRELAND, N.	Plymouth	70	41	58.1	47.5	52.6	- 1.1	74	0	1	0.11	- 0.71	37.2	+ 7.2	46	+ 9
	Malin Head	60	39	55.6	49.7	52.6	+ 0.5	74	0	2	0.02	- 0.69	*	*	*	*
	Edenfel (Omagh)	63	35	56.6	42.7	49.4	+ 0.1	52	0	1	0.03	- 0.81	*	*	*	*
	Blacksod Point	64	45	58.6	50.0	54.2	+ 1.4	85	0	0	0.00	- 1.07	*	*	*	*
	Markree Castle	67	35	58.5	43.1	50.6	+ 0.3	60	0	1	0.02	- 0.89	21.7	- 0.8	27	- 1
	Armagh	64	33	56.9	45.0	50.8	+ 0.4	62	0	1	0.01	- 0.65	18.9	- 4.7	24	- 6
10. IRELAND, S.	Donaghadee	63	46	57.0	49.4	53.1	+ 1.6	78	0	2	0.02	- 0.65	*	*	*	*
	Dublin	61	44	57.6	48.6	53.0	+ 0.5	77	0	4	1.04	+ 0.45	19.4	- 9.9	24	- 12
	Parsonstown	65	38	58.4	43.4	50.7	- 0.4	61	0	2	0.13	- 0.54	26.7	+ 0.3	33	0
	Kilkenny	68	40	58.0	44.9	51.3	- 0.3	65	0	3	0.20	- 0.46	*	*	*	*
	Roche's Point	63	42	57.6	47.1	52.2	- 1.3	71	0	3	0.16	- 0.74	*	*	*	*
	Valencia	64	42	58.7	45.3	51.8	- 2.3	69	0	0	0.00	- 1.14	41.0	+ 13.5	51	+ 17
	Killarney	72	37	62.3	41.9	51.8	- 0.9	69	0	0	0.00	- 1.07	*	*	*	*
CHANNEL ISLANDS	Foynes	64	40	57.7	45.3	51.3	- 1.0	65	0	1	0.03	- 0.74	*	*	*	*
	Scilly (St. Mary's)	66	42	57.9	49.4	53.5	- 2.7	81	0	1	0.05	- 0.74	46.2	—	57	—
	Jersey	64	46	57.7	50.7	54.1	- 2.8	85	0	6	0.67	- 0.18	28.7	- 7.1	35	- 9

Stations Marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

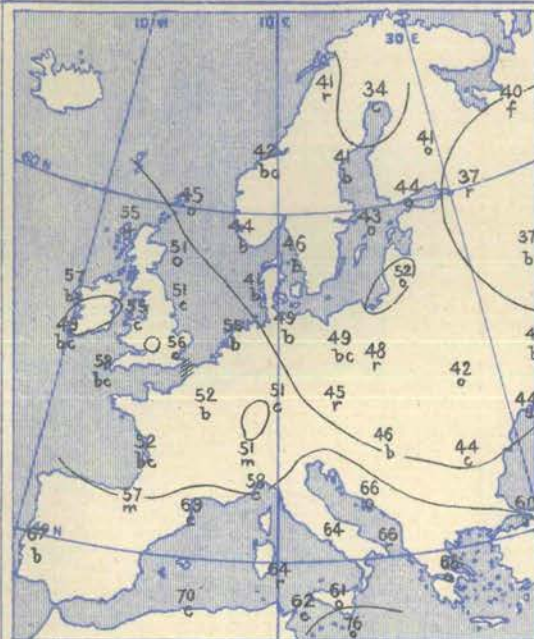
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Raucby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 28th September.

Temperature and Weather.

8 a.m.

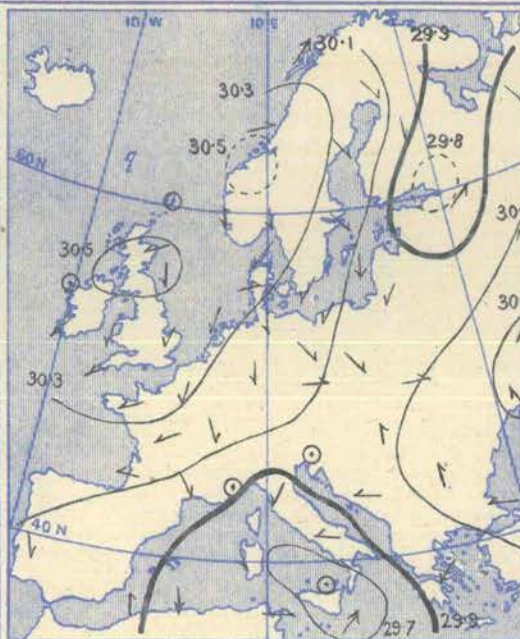


Weather in morning very fine over the greater part of Sweden, Norway, and the countries bordering on the eastern shores of the North Sea, foggy or hazy in many parts of our Islands, cloudy in other countries. Rain falling at Cagliari, Brindisi, Vienna, and Christiansund, and over the Gulf of Finland; misty drizzle at Malin Head and in some parts of central England. Rain later in the north-west of Norway, large quantities in the south of Italy, and in some parts of Algeria.

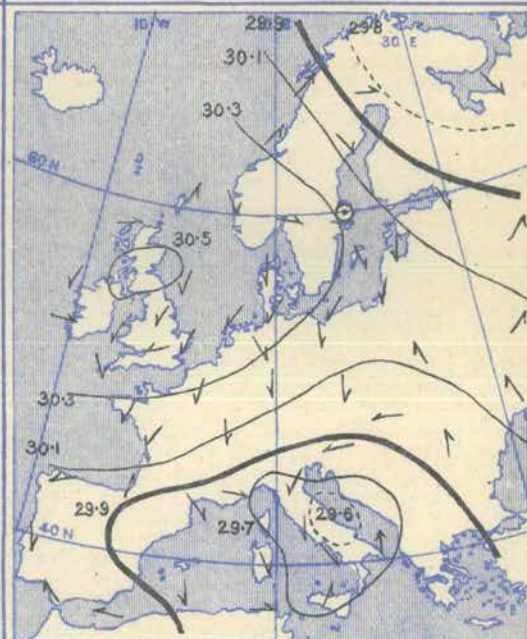
Temperature fallen both in Ireland and the north of Russia, risen decidedly over England, and slightly over central Europe. Morning readings ranging from 70° at Algiers, 69° at Barcelona, 58° at Patras, much above 60° all over the Mediterranean and Adriatic, and 60° at Jersey, to 34° at Haparanda, 37° at St. Petersburg and Moscow, 41° at Karlstadt, and 42° at Lemberg. Rising later to between 60° and 66° over the western parts of our Islands, to 70° at Brest, 72° at Nice, 77° at Tunis, 80° at Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



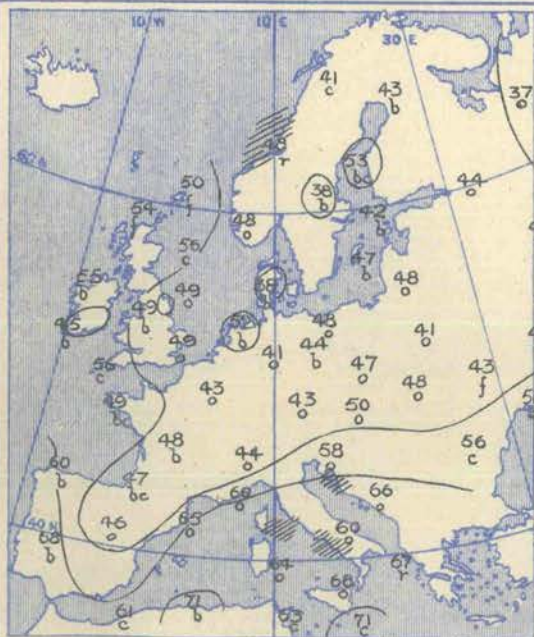
Wind (1) calm or light Northerly over the greater part of our Islands, faint Southerly to South-Westerly over the southern parts of Russia; (2) cyclonic Northerly over the Baltic, North-Westerly at Hangö, South-Westerly at St. Petersburg; (3) a cyclonic circulation of moderate winds over the Mediterranean. No change of apparent importance later.

Barometer highest, 30.5 ins. and more to 30.4 ins. over the British Islands, 30.3 ins. and more to 30.2 ins. over the south of Russia. Lowest, 29.8 ins. and less in a depression over the Gulf of Bothnia, and below 29.7 ins. in another over Sicily and the neighbouring parts of the Mediterranean. The depressions both over northern Europe and Sicily moving north-eastwards later—the former apparently dispersing.

Monday, 29th September.

Temperature and Weather.

8 a.m.

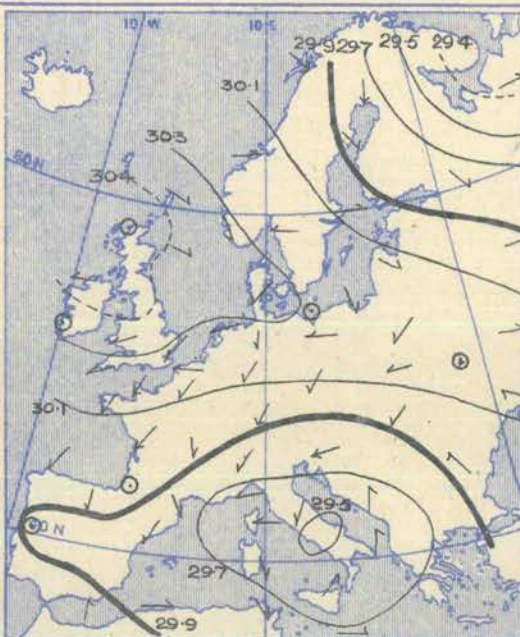


Weather in morning fine and bright over Sweden, north Germany, the North Sea, and many parts of our Islands, but very hazy or foggy on our western and northern coasts; dull over Russia, with rain at Moscow; dull over the Mediterranean, with rain in places. Rain later in many parts of France, smaller quantities on many parts of our northern and eastern districts.

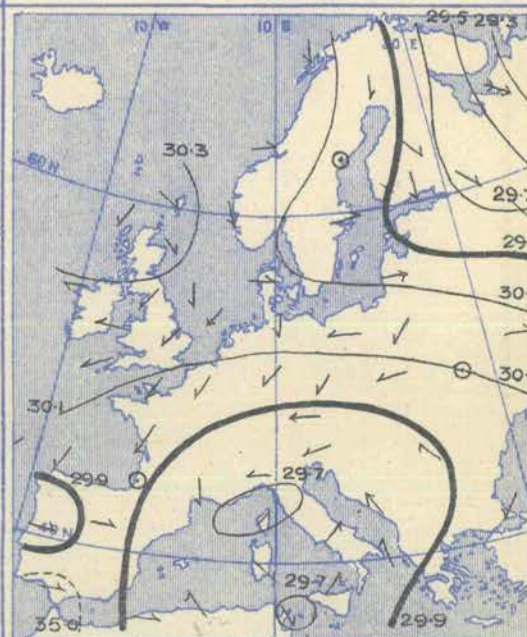
Temperature fallen over England, Belgium, and France, risen over Scandinavia, Scotland, and the east of Ireland. Morning readings highest, 71° at Malta and Algiers, and above 60° at almost all stations on the shores of the Mediterranean; 56° at Scilly and at Aberdeen. Lowest, 38° at Karlstadt and Fano, 39° at Newton Reigny, 48° at Pembroke, 45° at Valencia, 45° at Munich and Lemberg. Rising later to between 60° and 63° on our extreme north-west coasts, to 59° in many parts of our Islands, 63° at Cape Gris Nez, 66° at Nice.

Barometer and Wind.

8 a.m.



6 p.m.



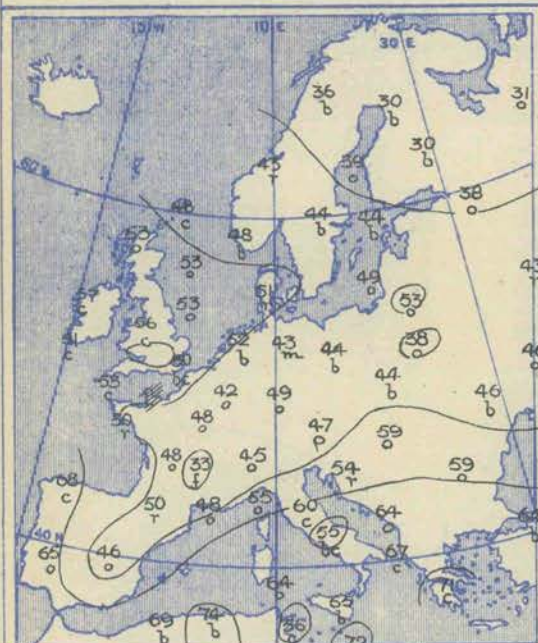
Wind North-Easterly to Northerly over the southern and western parts of Europe, Westerly and North-Westerly in the north; very light and variable over Scotland, and light Easterly in the north of Ireland. Hardly any other change of a general nature anywhere, but the North-Easterly wind becoming strong in the Straits of Dover and on our east coast generally.

Barometer highest, 30.4 ins. and more over Scotland and the north of Ireland, and ranging from that value to 30.3 ins. in a "ridge" spreading south-eastwards across the Continent to the south of Russia. Lowest (1) 29.38 ins. at Archangel, and (2) 29.49 ins. at Naples. Falling later over the north of Russia, rising over the Mediterranean, and also over Lapland.

Tuesday, 30th September.

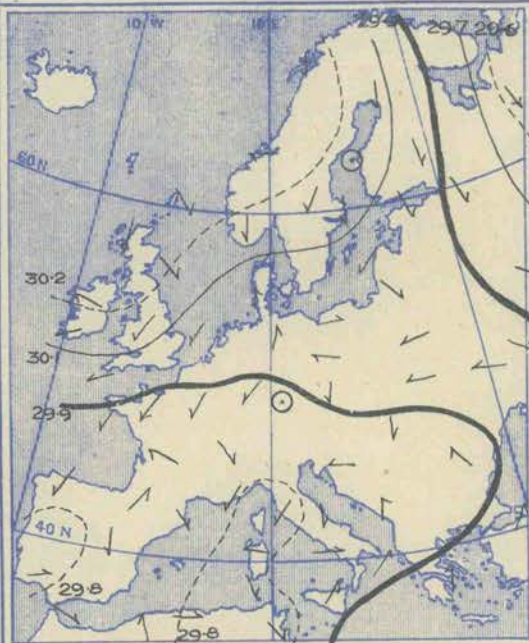
Temperature and Weather.

8 a.m.

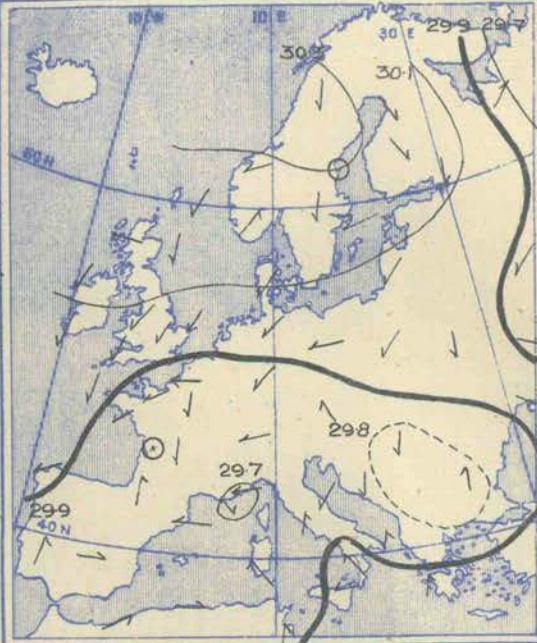


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over nearly the whole of Scandinavia and Belgium, fair over the British Islands, dull and not settled over most of Continental Europe. Rain falling at Moscow, Christiansund, Fano, Trieste, and Biarritz; fog at Belfort and Limoges. Slight rain falling later in the south-west, south, and east of the United Kingdom, and a great deal over France (0.99 in. at Nice, 1.6 ins. at Turin).

Temperature risen over England, the North Sea, France, and many parts of central Europe, fallen in the far north. Morning readings ranging from 74° at Algiers, and 71° at Patras, to 30° at Kuopio and the north of the Gulf of Finland, 43° at Christiansund and Cuxhaven, 48° at Sumburgh Head and Paris. Touching 60° at our extreme north-western stations later, and 50° in the extreme south-east of England, 61° at Rochefort, 66° at Nice, 81° at Palermo, 84° at Biskra.

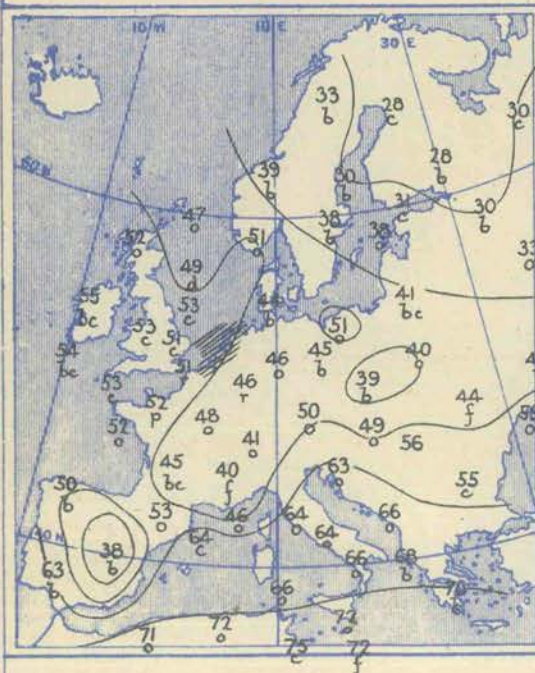
Wind moderate to strong from the North-Eastward in the south of England and over the Channel, and lighter from the same direction in England and in Ireland; light and very variable over Continental Europe and in Scotland, but Northerly in Finland. Little change later beyond increasing from North-East on the eastern shores of the North Sea and at Nice, and falling light over Finland and northern Russia.

Barometer risen in the north of Scandinavia and north of Russia, as well as over Italy; fallen elsewhere. Highest, 30.2 ins. and more over Norway, Scotland, and the north of Ireland. Lowest, 29.8 ins. and less over the Mediterranean and the region about Serbia, 29.57 ins. at Archangel. Rising later over Russia, falling irregularly over the south of France.

Wednesday, 1st October.

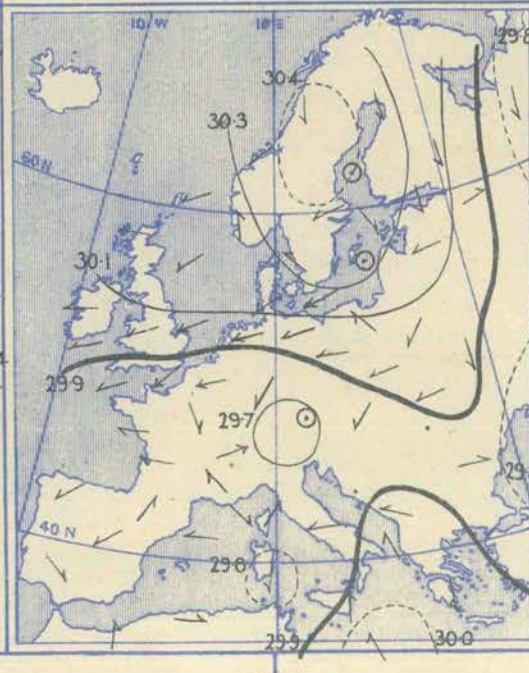
Temperature and Weather.

8 a.m.

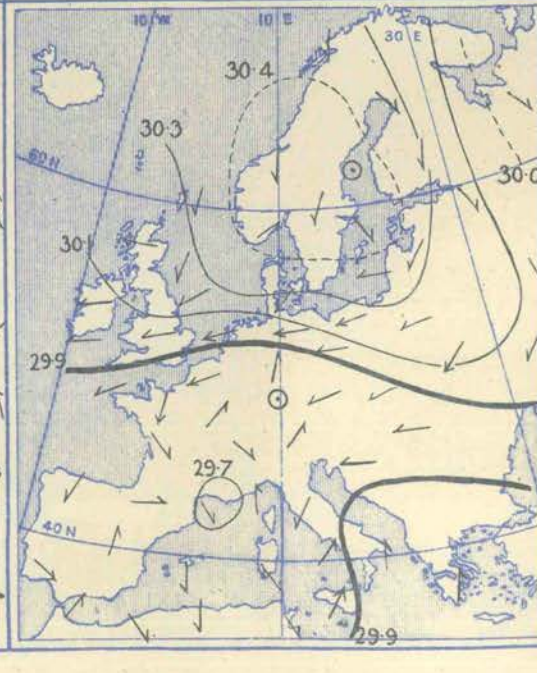


Barometer and Wind.

8 a.m.



6 p.m.



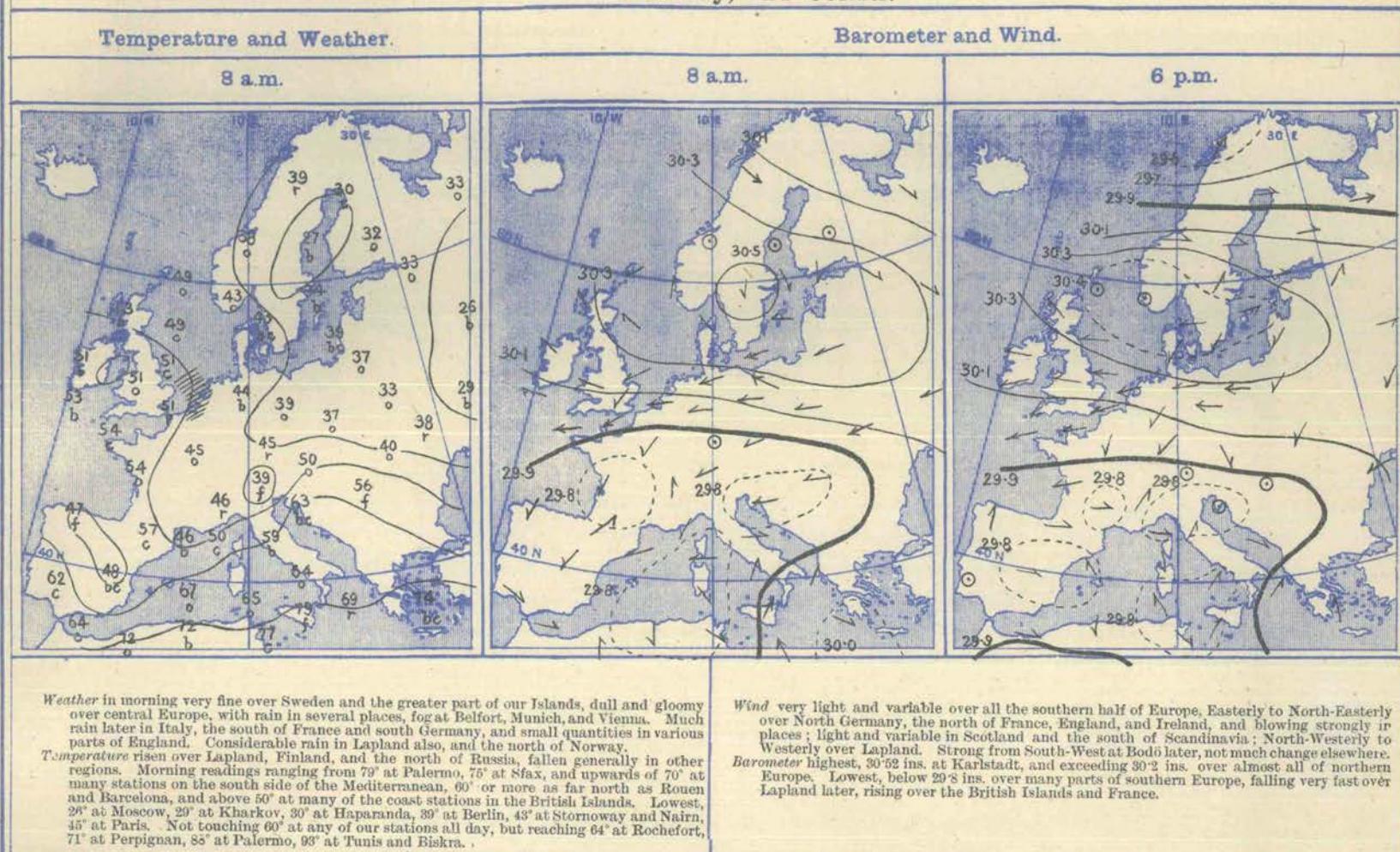
Weather in morning fine and bright over the greater part of Scandinavia, Finland, and the Gulf of Bothnia, as well as over Spain and south-eastern Europe; more or less cloudy elsewhere, and overcast in most regions. Rain falling over several of the northern and south-eastern parts of Great Britain, several parts of Belgium and France, and at Nicolaieff. Slight rain later over all the eastern parts of Great Britain, more in France and some parts of south Germany, and a little at Kharkov.

Temperatures not changing decidedly anywhere. Morning readings highest, 79° at Malta, Palermo and Algeria, and above 60° at most Mediterranean stations, excepting those in the south of France. Lowest, 28° at Helsingfors, Kuopio, and Haparanda, 30° at Archangel and St. Petersburg, 33° at Moscow, 36° at Limoges, touching 60° or more later at our extreme north-western stations, 61° in London, 66° at Nice, 85° at Palermo, 90° at Tunis.

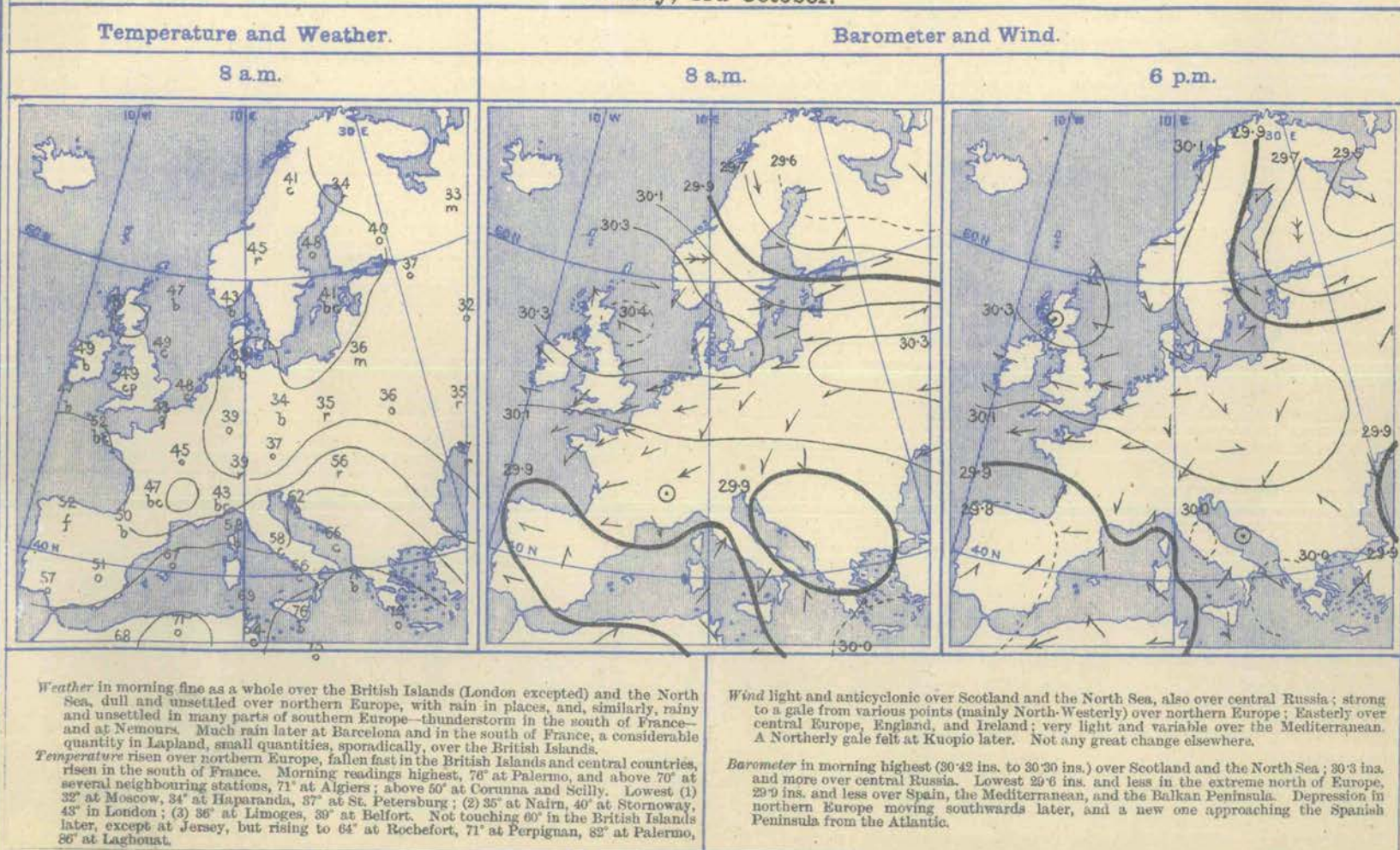
Wind very light Northerly to Easterly over Scandinavia, Easterly to North-Easterly over north Germany, the North Sea, and the British Islands. Very variable and light over France, not so light over the Mediterranean. The Easterly breeze becoming very strong and gusty later at Dungeness, and on the Dutch coast, and a very strong South-South-Westerly wind setting in at Palermo. Not much change elsewhere.

Barometer in morning highest, 30.4 ins. and more to 30.3 ins. in an anticyclone over Scandinavia. Lowest, 29.8 ins. and less over southern Russia, and below 29.9 over the central parts of Spain, France, and some parts of the Mediterranean. Not much change later, beyond a great rise in the south of Russia.

Thursday, 2nd October.



Friday, 3rd October.



DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)						Rainfall.			Bright Sunshine.						
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).	Above 42° F.	Below 42° F.	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Pos- sible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.											
Week ending Sept. 6th, 1902.	Foynes - - - - -	60	47	66.7	51.3	58.6	+ 2.2	116	0		5	0.81	+ 0.03	-	-	-	-
" " 13th "	Rhyl - - - - -	—	—	—	—	—	—	—	—	—	—	—	—	35.8	-	-	-
" " " "	Margate - - - - -	—	—	—	—	—	—	—	—	—	—	—	—	88.5	+ 3.0	43	+ 3
" " " "	Bognor - - - - -	—	—	—	—	—	—	—	—	—	—	—	—	41.3	-	46	-
" " " "	Rhyl - - - - -	—	—	—	—	—	—	—	—	—	—	—	—	37.0	-	41	-

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 41.]
Fourth Series.

WEEK ENDING SATURDAY, OCTOBER 11TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 242.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	26	52.9	37.1	44.8	2 below	Day-deg. 40	Day-deg. + 2	Day-deg. 14	Day-deg. + 7	Day-deg. 1628	Day-deg. - 202	Day-deg. 674	Day-deg. + 83
	1. SCOTLAND, EAST	61	22	51.8	37.2	44.3	3 below	36	- 6	13	+ 4	1798	- 375	740	+ 99
	2. ENGLAND, N.E.	59	30	52.6	44.0	48.2	1 below	43	- 5	0	- 4	2186	- 182	522	+ 3
	3. ENGLAND, EAST	66	35	56.0	46.6	51.1	1 above	64	+ 9	0	- 5	2595	- 144	516	- 52
	4. MIDLAND COUNTIES	63	35	52.8	44.2	48.4	1 below	45	- 5	0	- 7	2464	- 223	523	- 60
5. ENGLAND, SOUTH	67	35	56.9	46.3	51.5	0 average	67	+ 3	0	- 3	2734	- 252	358	- 62	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	60	30	54.3	40.6	47.2	1 below	42	- 5	4	- 1	2123	- 175	487	+ 43
	7. ENGLAND, N.W.	58	25	52.1	44.5	48.2	2 below	43	- 10	0	- 3	2320	- 204	421	- 1
	8. ENGLAND, S.W.	62	35	55.6	46.0	50.7	1 below	61	- 1	0	- 2	2660	- 128	324	+ 1
	9. IRELAND, NORTH	59	28	53.7	43.0	48.2	1 below	43	- 6	0	- 4	2198	- 230	339	- 38
	10. IRELAND, SOUTH	61	33	54.9	44.3	49.5	2 below	53	- 4	0	- 3	2660	- 93	240	- 35
	— CHANNEL ISLANDS	65	43	59.0	49.4	54.0	1 below	84	0	0	0	3168	- 46	99	- 24

DISTRICTS. (See p. 242.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	10ths of in. 3	10ths of in. 9 less	196	+20	Ins. 33.3	- 3.6	22	+ 3	29	+ 4	987	- 32	26	- 1
	1. SCOTLAND, EAST	4	3	4 less	165	+14	18.9	- 5.0	12	- 10	16	- 13	1010	- 156	27	- 4
	2. ENGLAND, N.E.	6	11	4 more	145	+ 7	17.1	- 2.1	5	- 20	7	- 26	1090	- 62	29	- 2
	3. ENGLAND, EAST	5	7	0 average	138	- 1	18.2	- 0.9	10	- 16	13	- 21	*1406	- 55	36	- 2
	4. MIDLAND COUNTIES	4	9	3 more	138	+ 4	18.8	- 2.5	4	- 19	5	- 24	1163	- 40	33	- 1
5. ENGLAND, SOUTH	4	7	1 less	135	+ 5	19.4	- 1.6	20	- 9	26	- 12	1415	- 96	37	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	4	8 less	171	+13	35.8	- 1.6	12	- 9	16	- 12	1131	- 86	30	- 2
	7. ENGLAND, N.W.	3	11	2 more	161	+14	20.9	- 5.1	5	- 17	6	- 21	1304	+ 80	35	+ 2
	8. ENGLAND, S.W.	3	10	0 average	146	- 4	23.2	- 6.5	13	- 13	17	- 17	1381	- 98	38	- 3
	9. IRELAND, NORTH	1	less than ½	8 less	190	+16	26.6	- 0.4	15	- 7	20	- 8	1100	- 23	29	- 1
	10. IRELAND, SOUTH	3	4	5 less	155	- 4	24.8	- 5.6	14	- 12	18	- 16	1263	- 19	34	- 1
	— CHANNEL ISLANDS	5	9	1 more	156	+ 6	20.7	- 2.9	20	- 11	26	- 13	1555	- 169	42	- 5

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

* This value has been altered owing to the receipt of further information.

General Remarks.

Weather during this week, although mostly cloudy or dull, was generally fair and dry in the most northern and western districts, but over the major part of England it was far less settled, and rain fell frequently and sometimes heavily. Thunder and lightning occurred at a few English stations on Sunday, in the south of Ireland on Tuesday, and in Cornwall on the night of Thursday-Friday.

Temperature was again a little below the mean in most districts, but just equalled that value in England S., and was slightly above it in England E. The highest of the maxima, registered, as a rule, towards the end of the week, ranged from 67° in England S., 66° in England E., and 65° in the Channel Islands, to 59° in Ireland N. and England N.E., and to 58° in England N.W. The absolute minima occurred generally towards the end of the period, and varied from 22° in Scotland E. (at Braemar), 25° in England N.W., 26° in Scotland N., 28° in Ireland N., and 39° in England N.E. and Scotland W., to 35° over central, eastern, and southern England, and to 43° in the Channel Islands.

Rainfall was less than the mean except over the northern half of England and in the Channel Islands. In England E. and S.W. it just equalled the normal.

Bright Sunshine was very little prevalent, varying from 29 per cent. of the possible amount in Scotland N. (where it slightly exceeded the mean), and 26 in England S. and the Channel Islands, to 20 in Ireland N., 7 in England N.E., 6 in England N.W., and 5 in the Midland Counties.

Barometer and Wind. During nearly the whole of this period the barometer was highest to the northward or north-eastward of our Islands, while the cyclonic disturbances were confined to our more southern districts. The latter were at first somewhat ill-defined and of little depth, but towards the end of the week a more pronounced system advanced to our south-western coasts, and, after remaining stationary for a time near Scilly (while secondary disturbances appeared over our eastern counties), it moved eastwards up the English Channel, and at the same time decreased in depth. By Saturday night it had reached the Netherlands, and was still moving away quickly to the eastward.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N.	Sumburgh Head	52	38	50.4	42.0	46.1	- 0.5	29	0	2	0.13	- 0.82	*	*	*	*
	Stornoway	57	37	55.3	40.0	47.4	+ 0.3	46	6	3	0.51	- 0.65	22.0	+ 0.8	29	+ 1
	Wick	57	28	53.1	36.9	44.8	- 2.7	41	14	3	0.75	+ 0.08	*	*	*	*
	Lairg	60	26	56.3	34.6	45.1	- 0.8	53	21	2	0.07	- 0.77	*	*	*	*
	Glencarron	53	30	51.2	35.5	43.1	- 3.4	35	18	2	0.24	- 1.70	*	*	*	*
	Fort Augustus	54	27	51.8	34.2	42.7	- 4.8	38	22	1	0.03	- 0.90	20.9	+ 6.0	28	+ 8
1. SCOTLAND, E.	Fort William	54	31	52.0	36.6	44.1	- 4.6	37	15	1	0.02	- 1.68	27.9	+ 9.6	37	+ 13
	Nairn	56	27	53.6	33.6	43.3	- 4.3	44	24	3	0.36	- 0.19	*	*	*	*
	Aberdeen	55	33	51.6	37.9	44.6	- 3.7	35	11	5	0.25	- 0.42	17.2	- 7.0	23	- 9
	Braemar	51	22	47.4	32.8	39.9	- 4.7	15	35	3	0.12	- 0.75	*	*	*	*
	Ochertyre	61	29	55.3	34.0	44.3	- 3.7	50	22	4	0.10	- 0.81	*	*	*	*
	Leith	55	42	52.9	44.1	48.4	- 1.2	45	0	2	0.09	- 0.38	*	*	*	*
2. ENGLAND, N.E.	Marchmont	53	35	50.0	40.6	45.2	- 1.9	28	4	5	0.84	+ 0.06	12.3	- 8.8	16	- 13
	Alnwick Castle	59	30	52.5	41.3	46.7	- 1.8	36	2	6	1.17	+ 0.44	*	*	*	*
	Durham	52	38	49.6	42.4	45.9	- 2.7	27	0	5	1.11	+ 0.44	1.7	- 20.4	2	- 27
	Shields	54	36	52.3	43.7	47.9	- 1.4	41	0	5	1.27	+ 0.67	*	*	*	*
	Scarborough	58	40	54.4	44.1	49.1	- 0.8	50	0	7	1.19	+ 0.49	7.4	-	10	-
	Spurn Head	57	46	54.7	48.9	51.7	+ 0.4	68	0	6	0.84	+ 0.34	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	58	35	52.3	43.6	47.8	- 1.3	41	0	7	0.82	+ 0.27	7.4	-	10	-
	Hillington	65	35	55.3	45.1	50.1	0.0	57	0	6	0.54	- 0.10	10.2	- 14.5	13	- 19
	Yarmouth	64	46	56.7	48.9	52.7	+ 1.6	75	0	4	0.61	- 0.04	*	*	*	*
	Geldeston	66	43	56.0	47.5	51.6	+ 0.8	67	0	6	0.93	+ 0.35	7.9	- 20.4	10	- 26
	Cambridge	66	38	56.9	44.6	50.6	+ 0.1	60	0	5	0.50	- 0.03	12.0	- 14.5	16	- 19
	Felixstowe	61	46	55.7	48.9	52.2	+ 1.4	71	0	4	0.80	-	14.4†	-	19†	-
4. MIDLAND COUNTIES	Rothamsted	63	40	55.1	44.5	49.6	+ 0.1	53	0	4	0.52	- 0.15	11.1	- 16.8	14	- 21
	Harrogate	51	38	49.5	42.5	45.9	- 2.0	27	0	5	1.59	+ 0.86	1.8	-	2	-
	Bawtry (Hesley Hall)	57	35	52.6	41.4	46.8	- 2.5	36	2	6	0.78	+ 0.18	*	*	*	*
	Loughborough	57	38	52.9	44.4	48.5	- 1.7	46	0	6	0.64	+ 0.03	*	*	*	*
	Colly Weston (Stamford)	63	41	54.3	43.9	49.0	- 1.9	49	0	6	0.52	- 0.08	*	*	*	*
	Cheadle	53	42	50.5	44.0	47.2	- 1.2	36	0	4	0.49	- 0.27	*	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	60	43	52.9	45.3	49.0	- 0.7	49	0	3	0.81	+ 0.18	0.5	-	1	-
	Churchstoke	52	40	50.0	44.0	46.9	- 1.7	34	6	3	1.21	+ 0.46	0.0	- 23.9	0	- 32
	Hereford	60	42	54.6	46.0	50.2	+ 0.2	57	0	4	1.70	+ 1.06	*	*	*	*
	Cirencester	61	42	55.5	45.0	50.1	+ 0.8	57	0	3	0.87	+ 0.16	7.4	- 18.0	10	- 23
	Oxford	63	41	54.7	45.6	50.0	- 0.6	56	0	3	0.53	- 0.10	6.2	- 19.6	8	- 25
	London	67	41	57.9	45.9	51.7	+ 0.1	68	0	4	0.48	- 0.11	5.2†	- 15.4†	7†	- 20†
6. SCOTLAND, W.	Swarraton (Alresford)	64	42	56.1	46.5	51.2	+ 1.6	64	0	2	0.72	- 0.04	*	*	*	*
	Dungeness	63	35	57.6	44.7	51.0	- 2.2	63	0	3	0.24	- 0.46	19.6	-	25	-
	Hastings (St. Leonards)	63	43	57.3	47.7	52.4	- 0.4	73	0	4	0.54	- 0.26	20.6	- 9.8	27	- 13
	Southampton	67	42	58.3	46.9	52.4	- 0.9	73	0	3	0.63	- 0.12	18.6	- 9.7	24	- 13
	Portland Bill	62	43	57.1	47.1	52.0	- 0.4	70	0	4	0.71	-	*	*	*	*
	Shaftesbury	60	42	54.3	45.4	49.7	+ 0.2	54	0	5	1.42	+ 0.59	*	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	55	30	54.3	34.0	43.9	- 4.8	47	22	1	0.02	- 1.61	*	*	*	*
	Glasgow	53	36	51.3	41.3	46.2	- 1.8	32	2	1	0.02	- 0.82	10.2	- 7.0	13	- 9
	Cally	60	32	58.2	40.2	48.9	+ 1.0	56	5	1	0.30	- 0.76	*	*	*	*
	Douglas (Isle of Man)	58	41	53.2	46.8	49.9	+ 0.3	55	0	4	1.17	+ 0.19	13.7	- 11.8	18	- 16
	Newton Reigny	53	25	50.9	38.6	44.6	- 3.2	32	10	3	0.95	-	10.1	-	13	-
	Stonyhurst	53	40	50.4	44.0	47.1	- 2.0	36	0	2	1.14	0.00	5.3	- 16.7	7	- 23
8. ENGLAND, S.W.	Blackpool	56	35	53.3	44.0	48.5	- 1.9	46	0	3	1.00	+ 0.07	7.4	- 15.0	10	- 20
	Manchester (Prestwich)	54	41	51.3	44.2	47.7	- 1.6	40	0	2	0.84	- 0.08	3.3	-	4	-
	Liverpool Obsy. (Bidston)	54	44	52.0	45.7	48.8	- 2.0	48	0	3	1.05	+ 0.28	1.4	-	2	-
	Chester	58	39	53.6	45.3	49.3	- 1.7	51	0	5	1.32	-	*	*	*	*
	Llandudno	56	44	52.9	47.4	50.1	- 2.1	57	0	4	1.19	+ 0.33	4.2	- 17.8	6	- 23
	Holyhead	53	45	52.7	46.7	49.6	- 2.3	53	0	4	1.13	+ 0.21	*	*	*	*
9. IRELAND, N.	Llandovery	60	39	55.0	45.7	50.2	+ 0.8	57	0	4	0.51	- 0.71	*	*	*	*
	Pembroke	57	35	54.7	45.9	50.2	- 2.5	57	0	3	0.98	+ 0.10	7.9	- 18.2	10	- 24
	Clifton	60	43	54.6	46.4	50.4	- 0.7	59	0	2	1.01	+ 0.17	*	*	*	*
	Bath	62	40	56.0	46.3	51.0	+ 0.1	63	0	2	0.68	- 0.04	5.4	-	7	-
	Arlington (N. Devon)	57	41	53.9	45.0	49.3	- 1.2	51	0	4	0.91	- 0.43	*	*	*	*
	Cullompton	61	39	56.7	44.7	50.5	+ 0.1	60	0	4	1.30	+ 0.44	10.7	- 13.8	14	- 19
10. IRELAND, S.	Falmouth	58	40	56.7	46.9	51.2	- 2.0	64	0	4	1.60	+ 0.48	19.6	- 9.6	26	- 13
	Plymouth	61	40	58.4	47.4	52.7	+ 0.4	75	0	4	0.84	+ 0.01	22.0	- 5.3	29	- 7
	Malin Head	54	45	52.7	45.9	49.2	- 1.1	50	0	1	0.01	- 0.69	*	*	*	*
	Edenfel (Omagh)	55	31	53.6	40.3	46.8	- 0.9	41	5	0	0.00	- 0.85	*	*	*	*
	Blacksod Point	58	40	55.0	45.7	50.2	- 1.2	57	0	0	0.00	- 1.14	*	*	*	*
	Markree Castle	59	28	55.1	37.4	46.0	- 2.8	47	13	1	0.01	- 0.93	20.4	- 1.1	27	- 2
CHANNEL ISLANDS	Armagh	57	37	52.4	41.1	46.6	- 2.1	36	3	0	0.00	- 0.67	9.5	- 12.0	12	- 17
	Donaghadee	55	46	53.1	47.4	50.2	+ 0.3	57	0	1	0.01	- 0.68	*	*	*	*
	Dublin	56	44	53.6	47.1	50.3	- 0.6	58	0	6	1.27	+ 0.63	7.3	- 19.9	10	- 26
	Parsonstown	57	33	53.6	41.7	47.5	- 1.7	40	1	2	0.03	- 0.65	7.3	- 17.3	10	- 23
	Kilkenny	57	41	53.1	44.4	48.6	- 1.4	46	0	4	0.75	+ 0.05	*	*	*	*
	Roche's Point	59	44	55.1	46.1	50.5	- 1.9	60	0	6	0.49	- 0.44	*	*	*	*
CHANNEL ISLANDS	Valencia	61	40	57.4	44.1	50.6	- 2.0	60	0	0	0.00	- 1.20	26.6	+ 1.1	35	+ 1
	Killarney	61	36	56.9	42.6	49.5	- 1.9	53	0	0	0.00	- 1.17	*	*	*	*
	Foynes	60	38	54.8	44.2	49.3	- 1.2	51	0	1	0.09	- 0.74	*	*	*	*
	Scilly (St. Mary's)	60	44	56.9	48.6	52.6	- 2.2	74	0	4	1.23	- 0.41	19.8	-	26	-
	Jersey	65	43	61.0	50.1	55.4	+ 0.3	94	0	5	0.64	- 0.30	26.1	- 6.3	34	- 9

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Raucely; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 5th October.

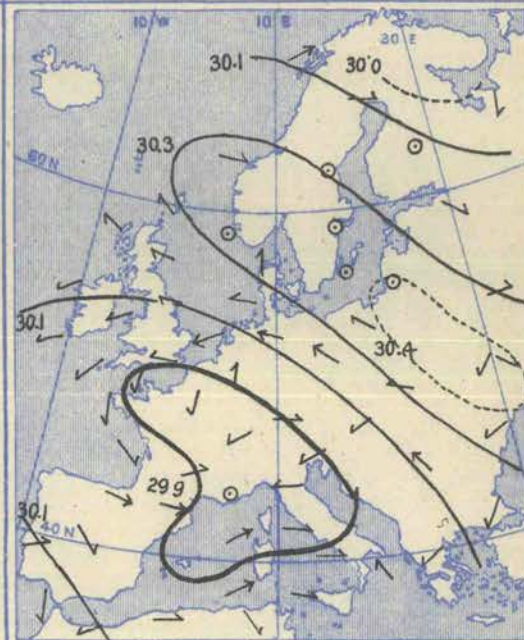
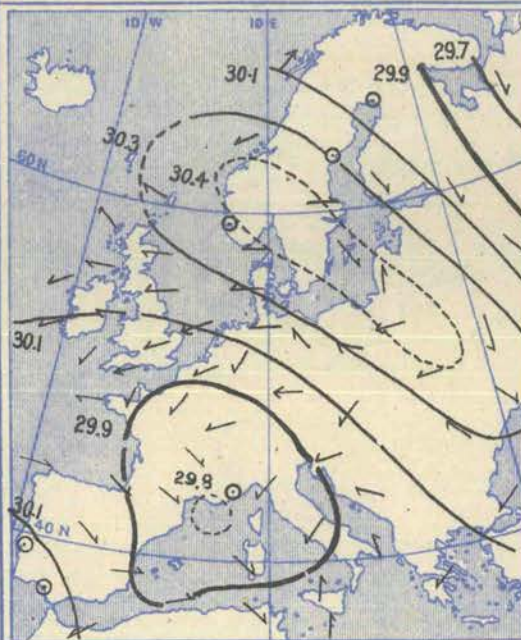
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning overcast over our Islands, France, and the Mediterranean, with rain in places, overcast also in Russia, rainy at Bodö, clear over the southern half of Scandinavia, the Baltic, and many parts of Germany, as well as in some parts of the Spanish Peninsula. A little rain later in many parts of the British Islands, and much larger quantities in the west and south of France, and over the Mediterranean and many parts of Austria.

Temperature rather higher over the British Islands and France than on the previous day, lower over Russia. Morning readings highest, 73° at Patras, 70° at Brindisi and Algiers, much above 60° at the Italian stations, 63° at Barcelona, 61° at Bilbao, 50° on several parts of the British Islands. Lowest, 29° at Karlstadt, 30° to 33° over Russia, 40° to 43° over the east of France, 45° at Nairn. Not touching 60° later in any part of our Islands or central France, but registering 63° at Lorient, 66° at Biarritz, Perpignan, and Lisbon, 81° at Malta, 79° on the Algerian coast, and 82° at Biskra.

Wind very light and anticyclonic over the south of Scandinavia, Denmark, and the north and east of Germany; light and mainly North-Westerly over Russia, Easterly moderate to strong over the British Islands and Brittany, North-Westerly moderate over Spain, very variable over the Mediterranean. Becoming North-Westerly to Westerly later in the west of France, South-Westerly over the Mediterranean.

Barometer highest 30.41 ins. at Riga, Wisby, and Faerder, and exceeding 30.2 ins. over the greater part of Scandinavia, the eastern shores of the North Sea and central Europe. Lowest, 29.68 ins. at Archangel, and 29.80 ins. at Nice, and below 29.9 ins. almost all over France, Italy, and the Mediterranean. The high-pressure area moving south-eastwards later, and barometer falling a little in the British Islands.

Monday, 6th October.

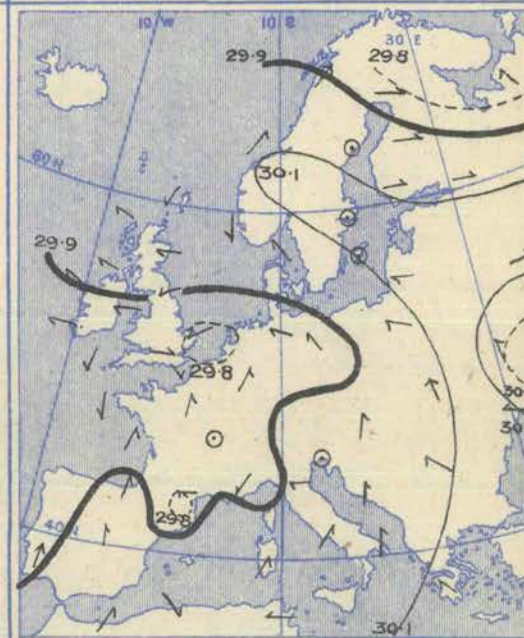
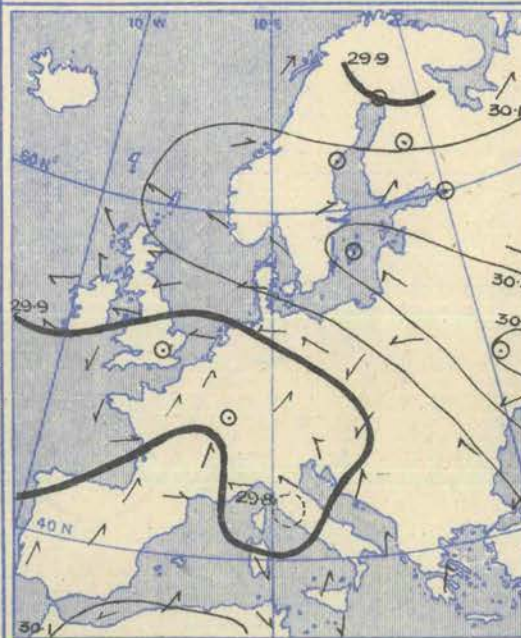
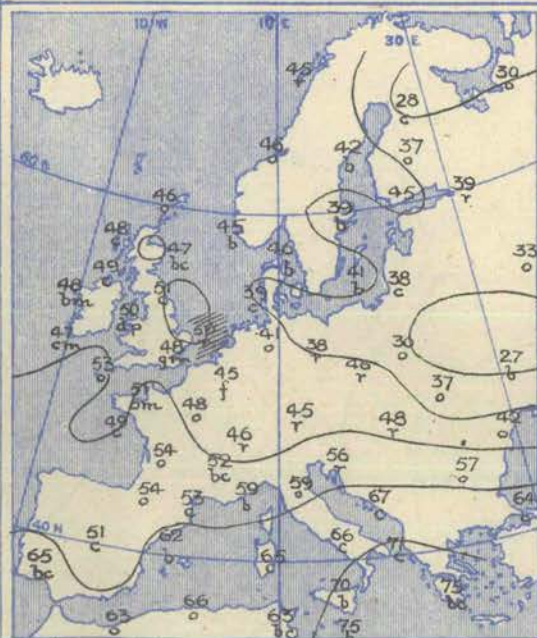
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning dull and not settled over England, France, and Germany, with rain in many places, fog in others; unsettled also in the northern parts of Russia, but fair in the south and over the Baltic. Much rain later at Lisbon, and over several parts of Italy and central Europe. Slight falls in most parts of Great Britain.

Temperature changed but little except over some parts of Hungary. Morning readings highest, 75° at Patras and Malta, 70° at Palermo, and above 60° on the Italian coasts and at Barcelona; 51° at Spurn Head, 50° at Scilly and Holyhead. Lowest, 28° at Uleaborg, 30° at Archangel, 33° at Moscow, 45° at Brussels and Munich, 38° at Nairn. Not touching 60° later in any part of the British Islands excepting Jersey, but reaching 63° to 64° on the west coast of France, 66° at Nice, 80° at Brindisi.

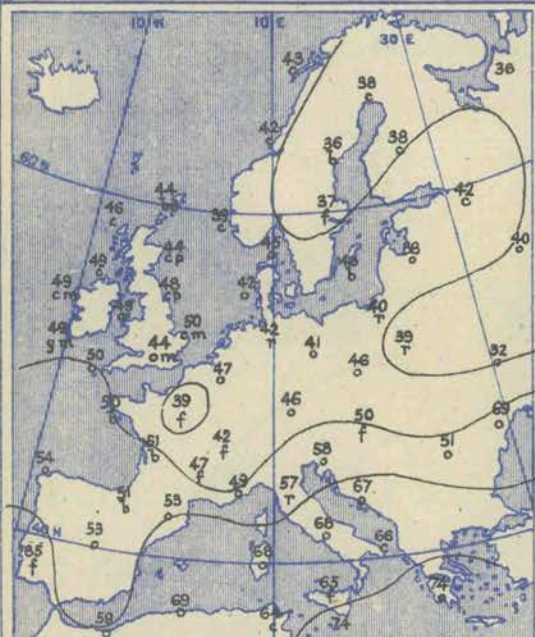
Wind very light and variable (anticyclonic) over the south of Russia and the Baltic, as well as over Spain, also light and variable over France, Easterly over nearly the whole of the British Islands, but not so strong as of late. The wind decreasing still more later over England and becoming more variable in direction, Southerly winds prevailing over Italy and the southern parts of central Europe.

Barometer highest over southern Europe (1) 30.51 ins. at Kieff, and exceeding 30.2 ins. in a ridge extending north-westwards to the south of Norway; (2) above 30.0 ins. over the southern half of Spain, the northern parts of Africa, Malta, and Greece. Lowest (1) 29.90 ins. at Haparanda; (2) 29.79 ins. at Rome, and below 29.9 ins. almost all over Germany, France, the northern parts of the Mediterranean, and the Bay of Biscay. Very little change later, but pressure decreasing slowly very generally.

Tuesday, 7th October.

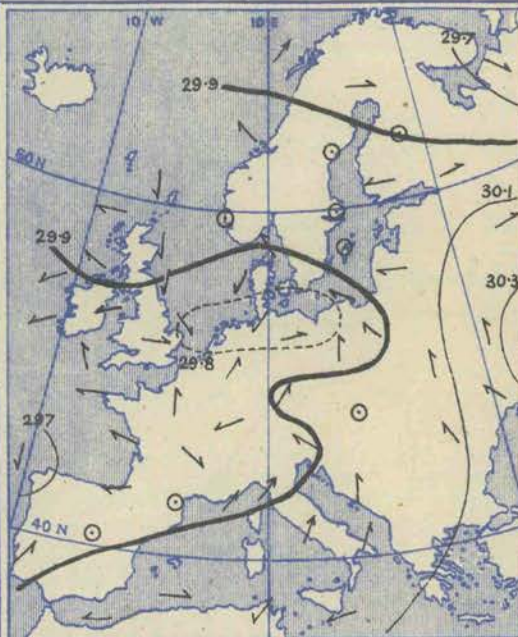
Temperature and Weather.

8 a.m.

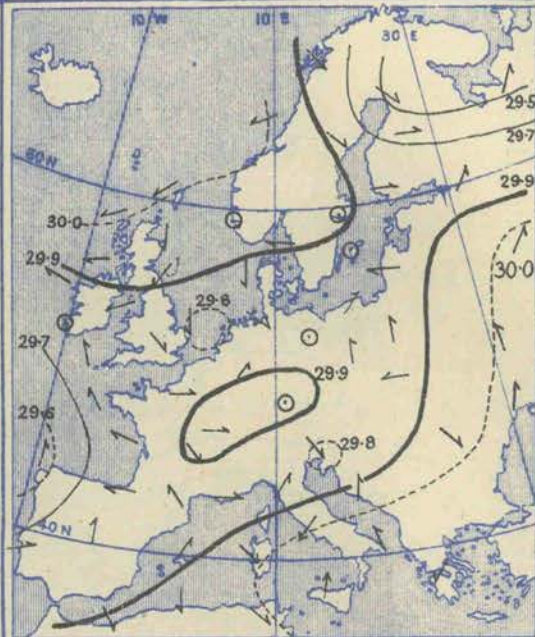


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in many parts of France and some parts of Scandinavia, cloudy or overcast everywhere else, with fog or haze in several places, rain in other widely spread. Some rain later in many parts of our Islands, and still more in large parts of Italy and Austria, as well as at Madrid.

Temperature risen somewhat over the eastern half of the Continent, not much changed in the west. Morning readings, 74° at Patras and Malta, and between 70° and 60° at most Mediterranean stations, 54° at Corunna, 50° at Scilly and Portland. Lowest, 32° at Kharkov, 33° at Karlstadt, 36° at Archangel and Uleaborg, 39° at Paris. Rising later to 60° at Jersey, 61° at Frankfurt, 63° at Rochefort and Perpignan, 77° at Cagliari, 84° at Algiers.

Wind strong South-Westerly at Bodø, light and very variable elsewhere. Mainly Southerly to South-Westerly over Russia, and North-Easterly to Northerly over the British Isles. Becoming North-Westerly strong, later, at Bodø, and changing a little locally in other places; a Southerly to South-Westerly wind setting in over Portugal, but only of moderate strength.

Barometer in morning highest, 30.3 ins. and more, to 30.1 ins. over the Black Sea and south of Russia, 30.0 ins. at Stornoway, and in a band extending from Norway, across Sweden and the Gulf of Finland, to Russia. Falling later over Russia and also off the Portuguese coast; not changing much over our Islands.

Wednesday, 8th October.

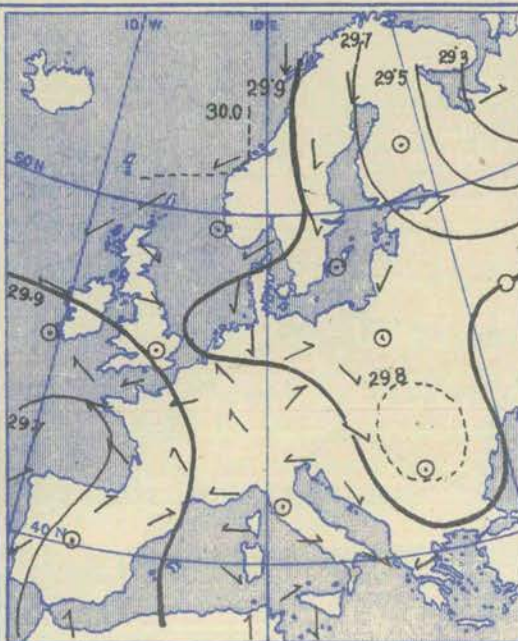
Temperature and Weather.

8 a.m.

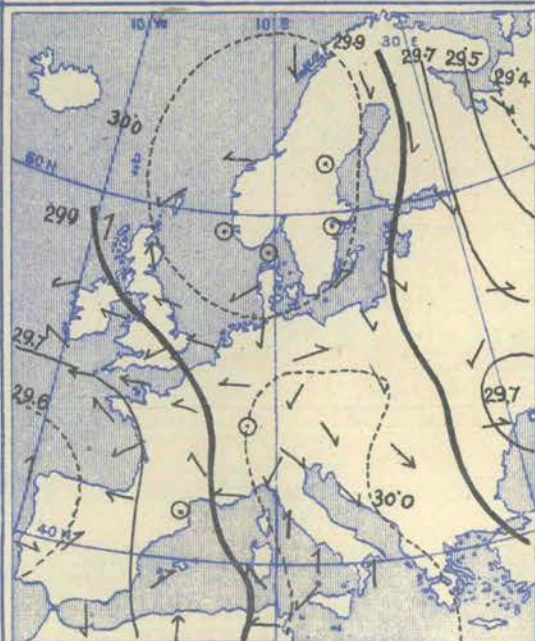


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning less disturbed as a whole than of late, but still very cloudy (except over Sweden) with rain in some localities, fog very generally over Belgium and the north-west of Germany, haze in many parts of the British Islands. A little rain sporadically in our Islands and France, as well as over the eastern parts of Germany and Austria.

Temperature decreasing in our Islands, changing very fitfully over the Continent. Morning readings highest, 77° at Algiers, 76° at the Greek stations, and above 60° at many Mediterranean stations, 59° at Corunna, 54° at Scilly, 50° on the south and west coasts of Ireland. Lowest, (1) 23° at Moscow, 29° at Archangel, 35° at Haparanda, 39° at Riga; (2) 30° at Newton Reigny, 43° at Loughborough and Nairn. Rising later to 61° at Jersey and in London, 63° at Nice, 74° at Biarritz, 77° at Cagliari, 89° at Palermo, 95° at Tunis and Algiers.

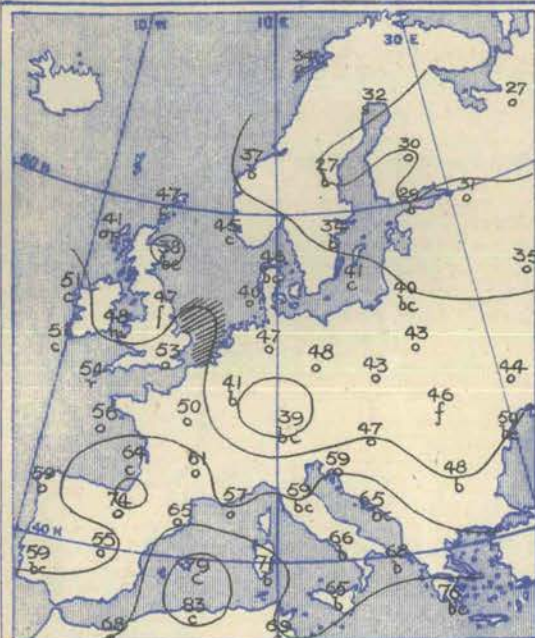
Wind light to moderate in force, and extremely variable in direction over Europe as a whole but mainly Easterly over the south-west of our Islands and most parts of France; calm at several stations in our Islands and North Germany. The Easterly wind spreading northwards later, and freshening greatly at the mouth of the Channel; calms prevailing over Scandinavia.

Barometer highest, (1) 30.04 ins. at Christiansund; (2) 30.09 ins. at Malta, and exceeding 30°C ins. all over Greece, Sicily, and Italy; (3) 30.0 ins. at Kharkov. Lowest, 29.23 ins. at Archangel, 29.88 ins. at Yarmouth, 29.63 ins. at Corunna and Lisbon. Falling considerably later in Portugal and in the west of France, rising generally over Scandinavia.

Thursday, 9th October.

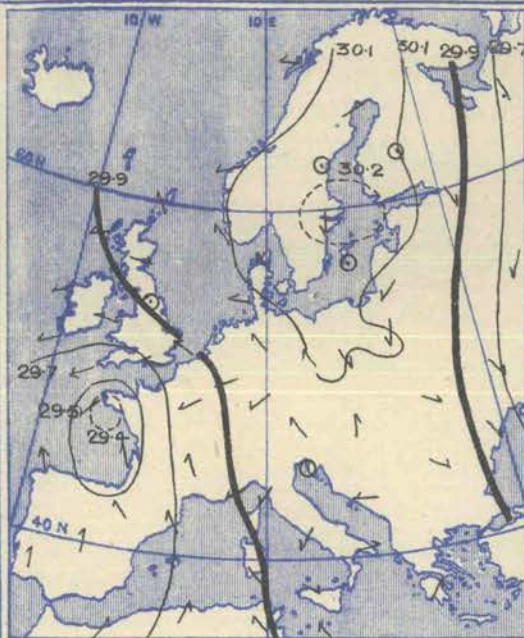
Temperature and Weather.

8 a.m.

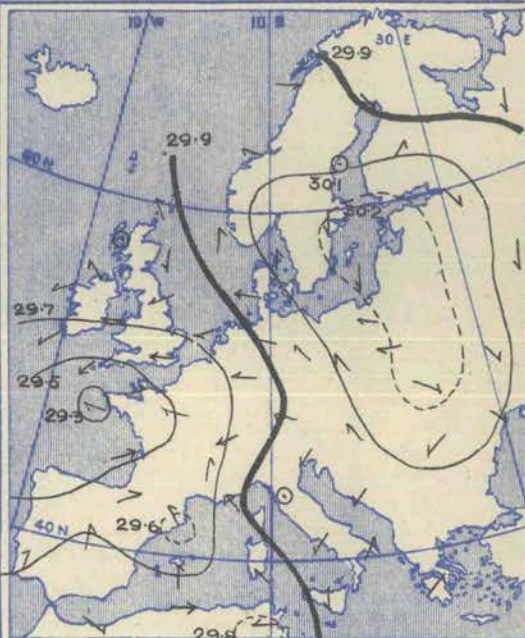


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the southern half of Scandinavia, and fair over central Europe and the greater part of North Britain, dull and very unsettled over the southern parts of this country and the north of France, raining at Scilly and Jersey. A great deal of rain later over England, some in Scotland, Ireland, and a few parts of France (0.95 in. at Lyons), thunderstorms at Jersey, Scilly, and some other parts of Cornwall, and very little sunshine, except in the extreme north and west.

Temperature risen decidedly over France and England, fallen over northern Europe and several parts of Scotland and Ireland. Morning readings highest, 83° at Algiers, 76° at Athens, 74° at Biarritz, above 60° over the Mediterranean as a whole, and many of the southern and south-western parts of France, above 50° on all our south-west, south, and south-east coasts. Lowest, 27° at Archangel and Uleaborg, 29° at Helsingfors, 43° at Breslau, 41° in the north of Scotland, 42° at Parsonstown. Rising later to 64° at Jersey, 72° at Nice, 77° at Biarritz and Cagliari, 93° at Tunis and Algiers.

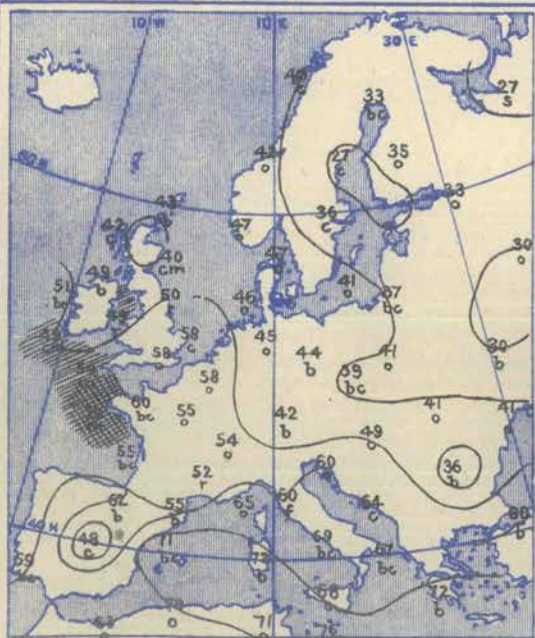
Wind in morning South-Easterly and Easterly over France, Easterly over England and Ireland, strong in the South; light from the Northward over the Mediterranean and Russia, and light and anticyclonic over Scandinavia and Germany. Southerly in Portugal. Not much change as a whole during day, but wind veering to South-West in the west of France and blowing strongly, and the Easterly wind increasing in force over the Channel and our more southern districts.

Barometer risen over Scandinavia and northern and central Europe generally, fallen over the Bay of Biscay and the neighbouring countries. Readings at 8 a.m. ranging from 30.1 ins. to 29.7 ins. in a large anticyclone covering Scandinavia, Finland, the Baltic, and part of Germany, to 29.5 ins. in a depression over the south-east of Russia, and to below 29.4 ins. in another system to the westward of Brittany. Last mentioned disturbance remaining stationary during day, and that over Russia disappearing; high-pressure area moving south-eastwards, and another cyclonic system forming near Barcelona.

Friday, 10th October.

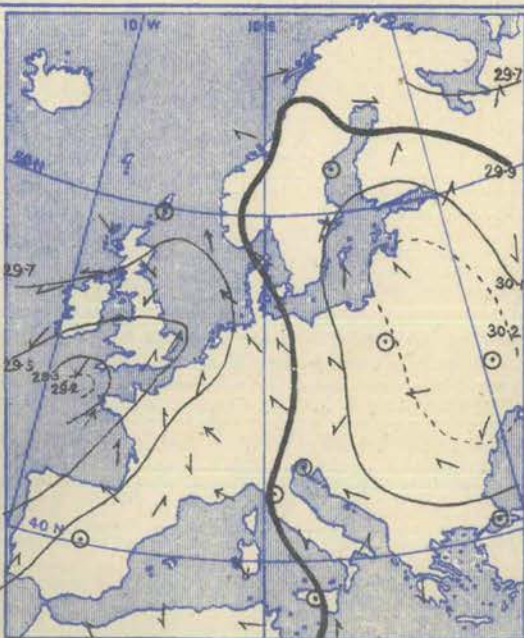
Temperature and Weather.

8 a.m.

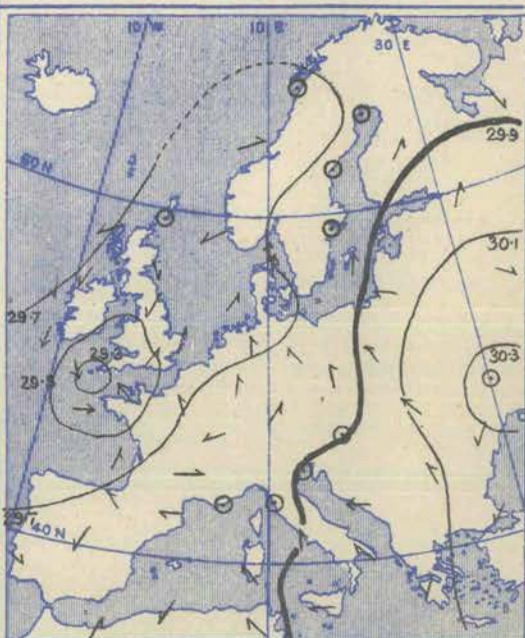


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Germany and the western parts of Russia, fair in Scotland and the eastern parts of France, very dull and unsettled over England and the east of Ireland, with rain in places. Rain later except in Scotland—the amounts being great in places—rain in many parts of France also, but not over the countries lying further to the eastward.

Temperature risen over England, France, and the west and south of Germany, fallen fast over the central and southern parts of Russia, changed irregularly elsewhere. Morning readings highest, 76° at Malta, 72° at Patras, 70° at Algiers, and above 60° over almost the whole of the Mediterranean, 58° in London and at Yarmouth. Lowest, 27° at Archangel and Helsingfors, 30° at Moscow and Kieff, 40° at Breslau and also at Bodö, 30° at Nairn, 31° at Wick. Rising later to 67° in London, 68° at Rochefort, 70° at Nice, 73° at Biarritz, 85° at Palermo, 93° at Algiers and Tunis.

Wind light and anticyclonic over central Europe, cyclonic Southerly over the north of France, South-Westerly over the south-east of England, but North-Easterly to Northerly on our south-west coasts, and blowing a moderate gale at Valencia; variable and light in Scotland, South-Westerly strong at Bodö, very light and variable over the Mediterranean. South-Westerly and South-Easterly winds increasing in strength over the west of France and the south of England during day, but the South-Westerly wind at Bodö falling to a calm. Very little change elsewhere.

Barometer risen over Russia, Spain, and the south-west of France, fallen elsewhere. Readings at 8 a.m. highest, 30.2 ins. and upwards over the west of Russia and the adjoining portions of Germany and Austria-Hungary. Lowest, less than 29.2 ins. in a small minimum near Scilly, and below 29.5 ins. in a secondary over the east of England, 29.7 ins. in another system over the White Sea. Chief minimum moving very slowly eastwards later, and the secondary over the east of England spreading north-eastwards over the North Sea. Russian anticyclone moving southwards and increasing somewhat in height.

Saturday, 11th October.

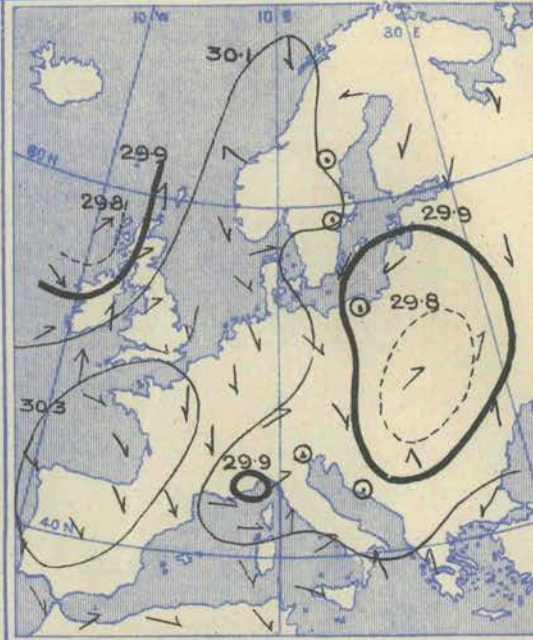
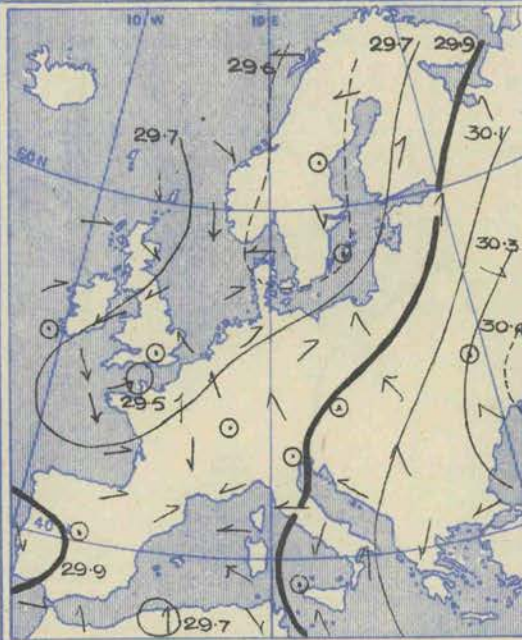
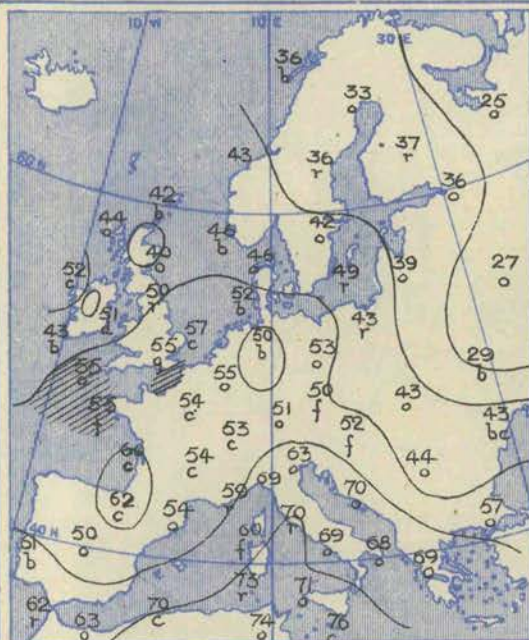
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull generally, with rain at several English, Swedish, and Finnish stations, and also at San Fernando. Fine and bright in Ireland, the north of Scotland, and the south of Russia. Slight rain falling over England later, and heavier amounts in most parts of Continental Europe—more than an inch at some southern French and northern Italian stations generally, and as much as 1.5 ins. at Trieste, 1.9 ins. at Nice, 2.3 ins. at Leghorn, and 2.7 ins. at Cape Sicé.

Temperature at 8 a.m. ranging from 76° at Malta, and between 70° and 60° on the shores of the Mediterranean, to a little above or a little below 50° over most parts of our Islands, and the greater portion of the central countries, to 36° at Wick, 34° at Parsonstown, 33° at Haparanda, and to below 30° over central and northern Russia. Rising later to 60° at some of our own stations, to above 60° in France and Germany, to 70° or above over southern Europe generally, to 90° at Tunis, and to 96° at Palermo.

Wind in morning light and anticyclonic over Russia and central Europe, and irregularly cyclonic over the United Kingdom, as well as over Scandinavia. Light in force generally, but Northerly wind on our south-western coasts, and Southerly wind at our south-eastern stations, fresh or strong. No great change later as a whole, but cyclonic circulations becoming transferred more to the eastward, and a third cyclonic movement setting in over the Gulf of Genoa, and an East-South-Easterly gale at Pesaro.

Barometer at 8 a.m. highest, 30.4 ins. in an anticyclone over the south of Russia, and above 29.9 ins. over Portugal. Lowest, 29.5 ins. to 29.6 ins. in a depression over our southern counties, below 29.6 ins. in another system over Denmark and Scandinavia, and below 29.7 ins. in a third, near Algiers. Both northern low-pressure systems moving eastwards later, and a well-defined disturbance appearing over the Gulf of Genoa. Anticyclone spreading over the Peninsula from the south-westward.

GENERAL NOTES.

The week has been one of complex and constantly changing conditions in the distribution of pressure, and consequently, in the winds and weather experienced over Europe. At first a band of high-pressure, 30.4 ins. and more, to 30.3 ins. extended from the south of Scandinavia, across the Baltic, Germany, and Hungary, to the Black Sea, while low-pressure areas were formed over central France and the Mediterranean on the one hand, and the north-east of Russia on the other. Easterly winds of great strength were blowing over the United Kingdom and North Sea, and light North-Westerly breezes over Russia. Gradually the high-pressure area moved south-eastwards, while the French low-pressures travelled northwards, and underwent great modifications in form. The Easterly wind died out, and a large intermingling of breezes from the South-West or South was noticed over the Mediterranean, France, and England. On

Wednesday morning conditions were still more complex; fresh depressions were spreading over Portugal and the Bay of Biscay, and these brought about a renewal of the Easterly wind in our Islands.

On Thursday pressure was highest over Scandinavia; a definite depression reached Brest, and another lay over the south-east of Russia. Next day the centre of the western disturbance had reached Sicily; some secondary disturbances had arrived over the east of England from the southward in the night, bringing in Southerly and South-Westerly winds in those regions. Rainy weather was very general over England, and the temperature rose. The disturbance then advanced eastwards to the Netherlands, where its central area was found filling up on Saturday night.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ——— = a heavy gale; ——— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and (•) = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 242.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNES	17.1	- 2.7	23	- 4	WORKSOP	6.1	- 14.8	8	- 20	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	21.8	- 0.7	29	- 1	THURCASTON	5.2	- 17.0	7	- 23	SOUTHPORT	—	—	—	—
EDINBURGH	6.0	- 13.3	8	- 18	MARGATE	13.6	- 13.2	18	- 17	RHYL	2.9	—	4	—
MORPETH	10.4	—	14	—	BROADSTAIRS	15.3	—	20	—	COLWYN BAY	5.8	—	8	—
NEWCASTLE-ON-TYNE	1.8	—	2	—	EASTBOURNE	26.0	- 5.0	34	- 7	ABERDOVEY	—	—	—	—
YORK	2.5	- 19.0	3	- 25	BRIGHTON	25.3	- 5.3	33	- 7	TENBY	3.2†	—	4†	—
CROMER	8.6	—	11	—	WORTHING	24.2	—	31	—	NEWQUAY	7.8	- 19.1	10	- 25
LOWESTOFT	7.5	—	10	—	BOGNOR	25.7†	—	33†	—	TORQUAY	15.0	- 13.5	20	- 17
DUNMOW	8.8	—	11	—	WATERGATE	17.6	—	23	—	GUERNSEY	14.9	- 12.9	19	- 17
HOLLESLEY BAY	10.4	—	14	—	WESTBOURNE	20.0†	- 9.2	26†	- 12		15.4†	- 14.8	20†	- 20
SHEFFIELD	0.8	—	1	—	VENTNOR HOSPITAL	27.3	- 3.9	36	- 5					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

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VOL. XIX. No. 42.]
Fourth Series.

WEEK ENDING SATURDAY, OCTOBER 18TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 248.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	62	30	53.5	41.1	47.1	1 above	Day-deg. 39	Day-deg. + 5	Day-deg. 3	Day-deg. - 6	Day-deg. 1667	Day-deg. -197	Day-deg. 677	Day-deg. + 77
	1. SCOTLAND, EAST	59	24	53.6	39.8	46.5	0 (average)	41	+ 4	6	- 5	1839	-371	746	+ 94
	2. ENGLAND, N.E.	61	32	55.4	43.6	49.3	1 above	51	+ 9	0	- 5	2237	-173	522	- 2
	3. ENGLAND, EAST	62	38	57.1	44.4	50.6	2 above	60	+11	0	- 7	2655	-133	516	- 59
	4. MIDLAND COUNTIES	62	33	55.3	43.4	49.2	1 above	50	+ 5	0	- 9	2514	-213	523	- 69
5. ENGLAND, SOUTH	64	39	57.6	46.2	51.7	2 above	68	+11	0	- 4	2802	-241	358	- 66	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	33	53.8	41.9	47.7	0 (average)	40	- 2	0	- 6	2163	-177	487	+ 37
	7. ENGLAND, N.W.	62	29	55.2	45.3	50.1	1 above	57	+10	0	- 4	2377	-194	421	- 5
	8. ENGLAND, S.W.	61	30	57.1	47.0	51.9	2 above	69	+13	0	- 3	2729	-115	324	- 2
	9. IRELAND, NORTH	58	33	54.9	44.1	49.4	1 above	52	+ 8	0	- 5	2250	-222	339	- 43
	10. IRELAND, SOUTH	62	34	57.0	47.1	51.9	2 above	69	+17	0	- 4	2729	- 76	240	- 39
	- CHANNEL ISLANDS	65	48	59.4	52.0	55.6	2 above	70	- 8	0	0	3238	- 54	99	- 24

DISTRICTS. (See p. 248.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 22	10ths of in. 10 more	202	+21	Ins. 35.5	- 2.6	19	+ 1	27	+ 1	1006	- 31	26	- 1
	1. SCOTLAND, EAST	6	10	3 more	171	+16	19.9	- 4.7	24	+ 4	34	+ 5	1034	-152	27	- 4
	2. ENGLAND, N.E.	5	5	1 less	150	+ 8	17.6	- 2.2	25	+ 6	35	+ 9	1115	- 56	29	- 1
	3. ENGLAND, EAST	5	5	1 less	143	0	18.7	- 1.0	20	- 5	27	- 7	1426	- 60	35	- 2
	4. MIDLAND COUNTIES	6	10	4 more	144	+ 6	19.8	- 2.2	19	- 4	26	- 5	1182	- 44	33	- 1
5. ENGLAND, SOUTH	5	9	1 more	140	+ 6	20.3	- 1.4	27	0	36	0	1442	- 96	37	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	17	6 more	177	+15	37.5	- 1.1	23	+ 3	31	+ 4	1154	- 83	30	- 2
	7. ENGLAND, N.W.	6	16	7 more	167	+16	22.5	- 4.4	24	+ 7	32	+ 9	1328	+ 86	35	+ 2
	8. ENGLAND, S.W.	6	15	5 more	152	- 2	24.7	- 6.0	24	0	33	0	1405	- 98	38	- 3
	9. IRELAND, NORTH	6	11	3 more	196	+18	27.7	- 0.1	22	+ 1	30	+ 1	1122	- 22	29	- 1
	10. IRELAND, SOUTH	6	11	2 more	161	- 2	25.9	- 5.4	21	- 3	29	- 3	1284	- 22	34	- 1
	- CHANNEL ISLANDS	6	12	3 more	162	+ 8	21.9	- 2.6	28	+ 3	38	+ 4	1583	-166	42	- 4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was very changeable, brief intervals of clear sky being interspersed with frequent and, at times, heavy falls of rain. Thunderstorms were experienced over the eastern and south-eastern counties of England on Tuesday, and at 5.20 p.m. on the same day a shock of earthquake occurred at Landale.

Temperature was one or two degrees above the mean generally, but only just equalled the normal in Scotland E. and W. The highest of the maxima were mostly registered during the earlier days of the week, and varied from 65° in the Channel Islands, and 64° in England S., to 58° in Ireland N., and 57° in Scotland W. The lowest of the minima, which were recorded on rather irregular dates, ranged from 24° in Scotland E., 29° in England N.W., and 30° in Scotland N. and England S.W., to 38° in England E., 39° in England S., and 48° in the Channel Islands.

Rainfall exceeded the mean in all districts except England N.E. and E. Over the western half and in the extreme north of Great Britain the excess was very considerable, owing principally to heavy falls about the middle of the week.

Bright Sunshine showed little deviation from the mean over the Kingdom as a whole. The percentage of the possible duration ranged from 38 in the Channel Islands, 36 in England S., and 35 in England N.E., to 27 in Scotland N. and England E., and to 26 in the Midland Counties.

Barometer and Wind. At the commencement of the week an anticyclone lay over Great Britain, and the winds were very light, except those from the Southward prevailing in the west of Ireland. This high-pressure system soon moved away south-eastwards, and depressions of moderate intensity appeared in the north-west and north. During the night of Tuesday-Wednesday, however, a larger and much deeper disturbance advanced rapidly from the Atlantic, its centre being found at 8 a.m. on the latter day off the west of Scotland. During its rather slow passage eastwards this system occasioned fresh to very strong gales in nearly all districts,—from South-West or West in the south, and from the North-Westward in the north. By the end of the week another cyclonic system had moved quickly from our north-west coasts to the south-east of England; it was not very deep, however, so that neither the Southerly winds in its front, nor the Northerly winds in its rear, attained any great force.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N.	Sumburgh Head	52	38	49.6	43.3	46.4	+ 0.8	31	0	6	1.02	+ 0.03	*	*	*	*
	Stornoway	57	38	54.9	42.3	48.4	+ 2.7	45	0	7	3.85	+ 2.66	23.4	+ 2.9	33	+ 5
	Wick	58	33	53.4	40.3	46.7	+ 0.5	40	5	5	0.63	- 0.06	*	*	*	*
	Laing	62	30	57.3	38.1	47.4	+ 2.5	54	11	5	0.66	- 0.21	*	*	*	*
	Glencarron	57	33	52.4	41.5	46.8	+ 1.7	36	1	7	4.61	+ 2.61	*	*	*	*
	Fort Augustus	57	31	53.1	39.3	46.0	- 0.5	39	8	7	1.79	+ 0.85	12.3	- 1.5	17	- 2
1. SCOTLAND, E.	Fort William	56	35	53.7	42.9	48.1	+ 0.7	43	0	7	3.13	+ 1.40	14.0	- 3.4	20	- 5
	Nairn	58	28	54.6	39.4	46.8	+ 0.6	45	7	6	0.62	+ 0.07	*	*	*	*
	Aberdeen	58	33	53.1	40.4	46.6	- 0.3	39	4	6	0.83	+ 0.15	29.7	+ 7.1	42	+ 10
	Braemar	53	24	49.1	36.2	42.5	- 0.7	28	16	5	2.20	+ 1.31	*	*	*	*
	Ochertyre	58	30	54.6	40.1	47.1	+ 0.6	44	5	4	1.64	+ 0.70	*	*	*	*
	Leith	59	30	56.7	41.0	48.6	+ 0.4	50	3	6	0.34	- 0.12	*	*	*	*
2. ENGLAND, N.E.	Marchmont	56	35	53.3	41.6	47.3	+ 1.5	39	1	6	0.45	- 0.35	23.0	+ 3.5	32	+ 5
	Alnwick Castle	58	33	54.9	41.8	48.2	+ 1.0	44	1	4	0.19	- 0.56	*	*	*	*
	Durham	61	32	55.0	42.7	48.7	+ 1.6	47	0	7	0.32	- 0.38	28.7	+ 3.3	40	+ 12
	Shields	59	35	55.6	43.7	49.5	+ 1.6	53	0	5	0.20	- 0.42	*	*	*	*
	Scarborough	61	38	56.1	43.6	49.7	+ 1.2	54	0	5	0.63	- 0.09	23.2	—	32	—
	Spurn Head	59	44	55.3	46.4	50.7	+ 1.0	61	0	4	0.90	+ 0.37	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	61	36	55.4	43.1	49.1	+ 1.7	50	0	7	0.81	+ 0.26	16.3	—	22	—
	Hillington	60	38	56.8	42.5	49.4	+ 1.0	52	0	7	0.93	+ 0.29	17.9	- 4.6	25	- 6
	Yarmouth	62	40	57.1	46.4	51.6	+ 2.1	67	0	5	0.28	- 0.37	*	*	*	*
	Geldeston	61	40	57.6	43.5	50.3	+ 0.9	58	0	5	0.21	- 0.39	14.8	- 10.9	20	- 15
	Cambridge	62	39	58.2	42.6	50.2	+ 1.4	57	0	5	0.39	- 0.16	18.6	- 5.7	25	- 8
	Felixstowe	61	42	57.2	47.2	52.1	+ 2.7	71	0	5	0.54	—	23.8	—	32	—
4. MIDLAND COUNTIES	Rothamsted	60	40	55.8	44.3	49.9	+ 1.8	55	0	5	0.88	+ 0.21	25.6	+ 0.4	35	0
	Harrogate	61	37	55.2	43.9	49.4	+ 2.4	52	0	6	1.04	+ 0.29	31.2	—	43	—
	Bawtry (Hesley Hall)	60	34	55.4	43.0	49.0	+ 1.5	49	0	6	1.03	+ 0.41	*	*	*	*
	Loughborough	61	33	56.4	42.6	49.3	+ 0.8	51	0	7	0.87	+ 0.26	*	*	*	*
	Colly Weston (Stamford)	59	40	55.9	44.1	49.8	+ 1.4	55	0	5	0.92	+ 0.32	*	*	*	*
	Cheadle	58	38	53.4	42.6	47.8	+ 0.8	41	0	6	1.69	+ 0.93	*	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	59	38	54.4	44.0	49.1	+ 0.9	50	0	6	1.22	+ 0.58	16.3	—	22	—
	Churchstoke	62	35	54.6	42.9	48.6	+ 1.5	46	6	6	1.27	+ 0.49	17.8	- 3.7	24	- 5
	Hereford	60	35	55.7	43.1	49.2	+ 0.9	50	0	5	1.00	+ 0.37	*	*	*	*
	Cirencester	59	35	55.4	43.0	49.0	+ 1.6	49	0	5	0.81	+ 0.09	21.5	- 2.0	29	- 3
	Oxford	60	40	56.7	44.9	50.6	+ 1.5	60	0	4	0.59	- 0.02	21.6	- 2.1	29	- 3
	London	61	40	57.3	46.1	51.5	+ 1.7	67	0	5	0.70	+ 0.10	18.3	+ 0.1	25	0
6. SCOTLAND, W.	Swarraton (Alresford)	59	39	55.7	44.4	49.9	+ 1.3	55	0	6	0.86	+ 0.09	*	*	*	*
	Dungeness	64	42	59.4	48.3	53.7	+ 2.2	82	0	4	0.64	- 0.09	31.6	—	43	—
	Hastings (St. Leonards)	61	39	58.1	44.8	51.3	+ 0.1	65	0	4	0.73	- 0.11	31.9	+ 3.9	43	+ 5
	Southampton	63	41	59.9	46.6	53.1	+ 2.2	78	0	4	1.08	+ 0.32	29.8	+ 3.4	40	+ 5
	Portland Bill	59	44	57.4	48.3	52.7	+ 1.6	75	0	4	0.99	—	*	*	*	*
	Shaftesbury	59	40	55.2	44.8	49.9	+ 1.8	55	0	6	0.98	+ 0.14	*	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	56	33	53.2	38.0	45.4	- 2.2	41	11	7	3.64	+ 2.00	*	*	*	*
	Glasgow	55	35	53.0	43.7	48.2	+ 1.6	43	0	4	0.85	+ 0.01	14.9	- 0.9	21	- 1
	Cally	57	35	54.1	41.8	47.8	+ 0.8	41	1	5	1.24	+ 0.16	*	*	*	*
	Douglas (Isle of Man)	57	36	54.9	44.2	49.4	+ 1.0	52	0	6	1.16	+ 0.16	30.1	+ 6.4	41	+ 9
	Newton Reigny	59	29	54.4	41.4	47.7	+ 1.2	42	2	5	1.20	—	29.8	—	41	—
	Stonyhurst	56	37	53.3	44.6	48.8	+ 1.4	48	0	6	2.13	+ 0.99	27.8	+ 7.4	38	+ 10
8. ENGLAND, S.W.	Blackpool	60	33	56.4	46.1	51.1	+ 2.1	64	0	6	1.64	+ 0.71	28.4	+ 7.9	39	+ 11
	Manchester (Prestwich)	59	35	54.9	43.2	48.9	+ 1.1	48	0	6	2.77	+ 1.85	12.5	—	17	—
	Liverpool Obsy. (Bidston)	60	42	55.0	46.4	50.6	+ 1.2	60	0	7	1.24	+ 0.46	21.0	—	29	—
	Chester	62	37	57.1	46.7	51.8	+ 2.2	69	0	6	1.36	—	*	*	*	*
	Llandudno	61	43	56.4	47.3	51.9	+ 1.4	69	0	6	1.25	+ 0.35	24.1	+ 4.1	33	+ 6
	Holyhead	57	43	54.4	46.4	50.3	- 0.5	58	0	6	1.49	+ 0.53	*	*	*	*
9. IRELAND, N.	Llandoverly	60	30	56.1	42.7	49.2	+ 1.4	50	0	7	2.83	+ 1.57	*	*	*	*
	Pembroke	61	45	57.4	50.3	53.8	+ 2.3	83	0	6	1.54	+ 0.61	26.8	+ 2.9	36	+ 4
	Clifton	60	42	56.8	47.1	51.8	+ 2.4	60	0	4	0.98	+ 0.13	*	*	*	*
	Bath	61	40	58.0	45.0	51.3	+ 1.9	65	0	4	0.73	+ 0.03	20.3	—	27	—
	Arlington (N. Devon)	58	38	55.3	45.1	50.1	+ 0.8	57	0	7	2.75	+ 1.35	*	*	*	*
	Cullompton	60	37	57.7	45.6	51.5	+ 3.0	67	0	5	0.84	- 0.04	20.5	- 1.8	28	- 3
10. IRELAND, S.	Falmouth	60	48	57.3	50.7	53.9	+ 2.0	83	0	7	1.19	+ 0.01	22.7	- 4.5	31	- 6
	Plymouth	60	43	57.8	49.3	53.4	+ 2.2	80	0	5	0.90	+ 0.06	27.1	+ 2.4	37	+ 3
	Malin Head	57	45	53.3	47.0	50.1	+ 0.9	57	0	7	0.94	+ 0.26	*	*	*	*
	Edenfel (Omagh)	57	35	53.7	43.0	48.2	+ 2.0	43	0	6	1.25	+ 0.40	*	*	*	*
	Blacksod Point	58	36	56.6	45.6	50.9	+ 0.7	62	0	7	1.73	+ 0.55	*	*	*	*
	Markree Castle	58	33	55.3	41.8	48.4	+ 1.0	46	1	6	1.69	+ 0.74	16.2	- 4.3	22	- 6
CHANNEL ISLANDS	Armagh	58	40	55.8	42.9	49.2	+ 1.9	50	0	6	0.66	0.00	27.0	+ 6.4	37	+ 9
	Donaghadee	57	38	54.9	44.4	49.5	+ 0.9	53	0	6	0.54	- 0.16	*	*	*	*
	Dublin	62	40	57.0	46.1	51.4	+ 1.9	66	0	7	0.47	- 0.19	25.2	- 0.1	35	0
	Parsonstown	59	34	55.6	43.4	49.3	+ 1.8	51	0	7	0.68	0.00	22.8	0.0	31	0
	Kilkenny	60	42	56.1	47.6	51.7	+ 3.1	68	0	6	1.23	+ 0.53	*	*	*	*
	Roche's Point	59	45	57.3	48.6	52.8	+ 1.6	76	0	6	0.77	- 0.18	*	*	*	*
CHANNEL ISLANDS	Valencia	60	42	57.6	48.4	52.9	+ 1.5	76	0	7	1.99	+ 0.74	16.3	- 7.4	22	- 10
	Killarney	62	45	58.9	48.0	53.3	+ 3.1	79	0	6	1.53	+ 0.26	*	*	*	*
	Foynes	60	45	56.2	47.9	51.9	+ 2.9	69	0	6	0.84	- 0.02	*	*	*	*
	Scilly (St. Mary's)	62	51	58.1	52.3	55.1	+ 1.5	92	0	6	1.19	+ 0.34	22.4	—	30	—
	Jersey	65	48	60.7	51.7	56.1	+ 2.5	99	0	5	1.27	+ 0.27	35.4	+ 5.7	47	+ 7

Stations Marked $\mathcal{R}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 12th October.

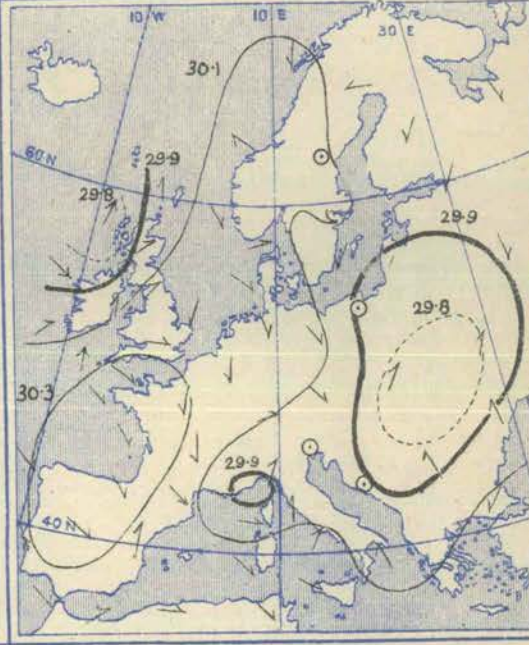
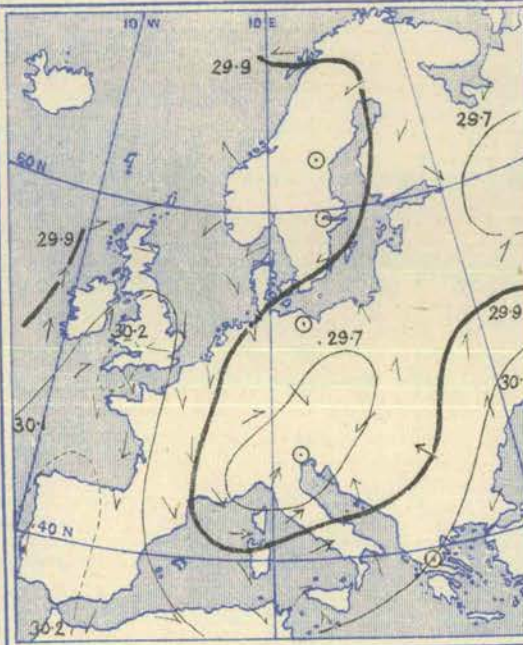
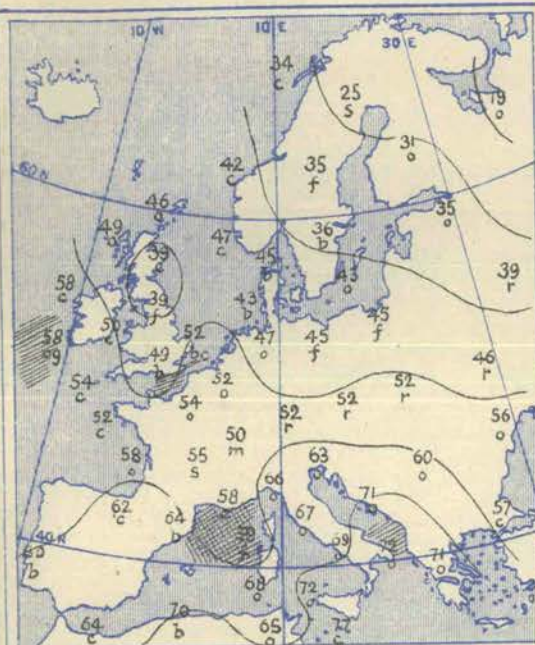
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning very dissimilar in various parts of Europe, foggy and rainy over central Europe, fine and bright over the south of Sweden, Denmark, and many parts of England and Brittany, dull over Ireland and over the Mediterranean. Rain falling later almost all over the British Islands, and at many of the Continental stations (heavily at Trieste).

Temperature risen quickly in Ireland, fallen over Sweden. Morning readings highest, 77° at Malta, and above 70° on the southern side of the Mediterranean generally; exceeding 60° on the coasts of southern Europe as a whole, 59° at Prague, 58° in the west of Ireland, 50° at Holyhead. Lowest, 19° at Archangel, 25° at Haparanda, 25° at St. Petersburg, 33° at Aberdeen and Shields. Rising later to between 55° and 60° over most parts of England and Ireland, 64° in the west of France, 72° at Paris and Nice, 85° at Palermo, 81° at Tunis and Annale.

Wind light and extremely variable over the greater part of Europe, very strong from between South-West and North-West over the northern parts of the Mediterranean, Northerly in the east of England, Southerly on our own western coasts, light to fresh in force. Veering to South-West and West in the west of Ireland later, and becoming Southerly on all our other western coasts and in Scotland.

Barometer highest (1) 30.2 ins. and more to 30.0 ins. over the south of Russia and the Baltic; (2) 30.3 ins. at Bilbao, and exceeding 30.1 ins. in a "ridge" extending northwards over England. Lowest, 29.6 ins. and less to 29.7 ins. in a complex depression over the north of Italy and Austria, and 29.91 ins. at Blacksod Point. Increasing generally over western Europe during the day, except at our north-western stations. A depression in the north-west moving north-eastwards.

Monday, 13th October.

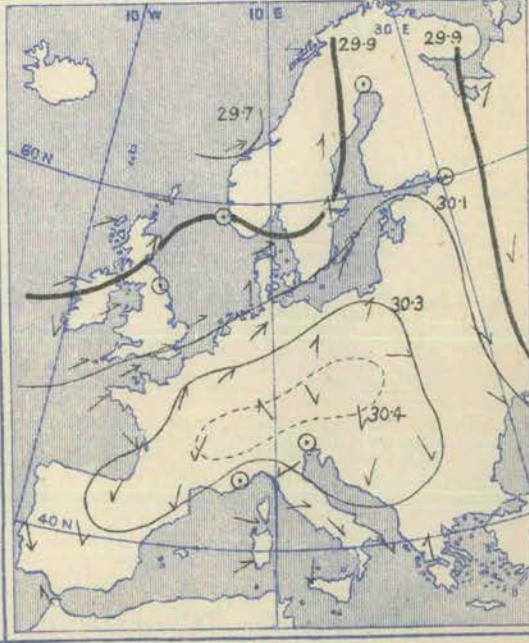
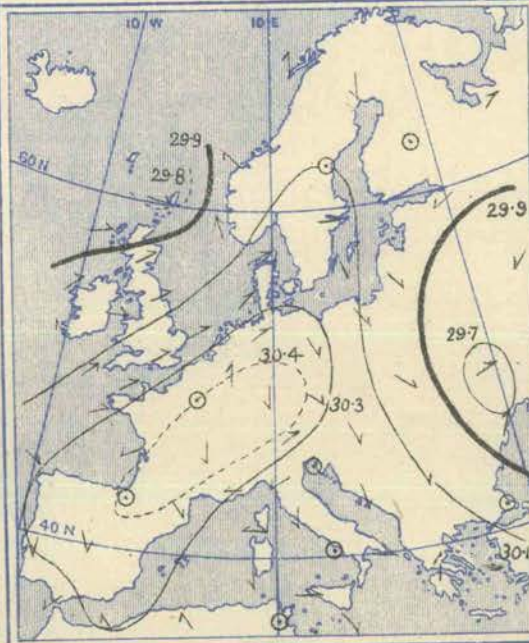
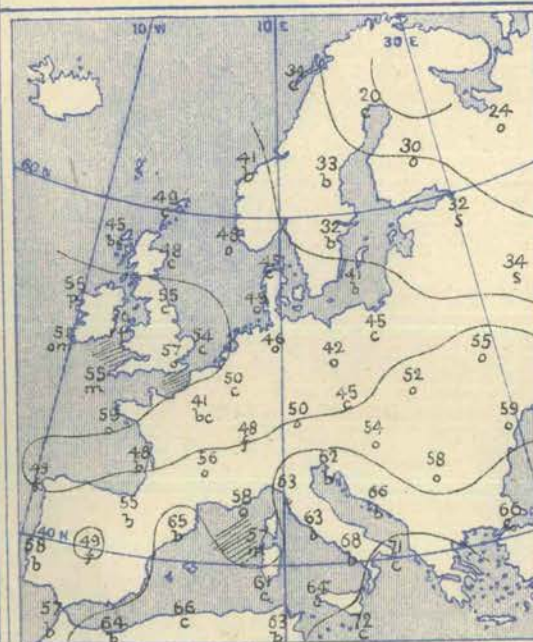
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over France and Spain, and in many parts of Scandinavia, dull elsewhere, with snow in Russia, rain at our western stations, fog at Madrid, Copenhagen, and Karlstadt. Rain later throughout our Islands (excepting Caithness) and over neighbouring parts of the Continent, and, sporadically, over some parts of southern Europe.

Temperature risen greatly over Great Britain and the North Sea, fallen in France. Morning readings highest, 74° at Patras, 72° at Malta, 71° at Brindisi, and above 60° at almost all Mediterranean stations, 55° to 58° over the greater part of England. Lowest, 24° at Archangel, 30° over Finland, 34° at Moscow, 32° at Karlstadt, 47° at Nairn. Rising later to 65° at Jersey, and 60° or more in many parts of England, to 68° at Nice, 75° at Marseilles, 79° at Palermo.

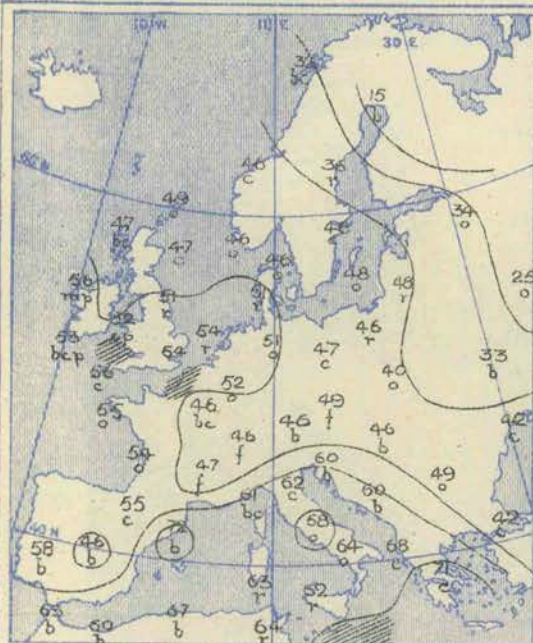
Wind light generally, but strong in some parts of England and Wales. Very variable in direction—mainly Northerly over central and southern Europe, South-Westerly over England, South-Easterly at Valencia. Becoming South-Westerly later all over north-western Europe, increasing in force, and blowing strongly over the countries lying to the eastward of the North Sea.

Barometer highest, 30.4 ins. and more to 30.3 ins. over France, Spain, and Germany. Lowest (1) 29.7 ins. and less in one depression over the southern parts of central Russia; (2) 29.8 ins. in another lying to the northward of the British Islands. The depression over Russia moving south-eastwards; northern moving north-eastwards later; a new disturbance approaching the Hebrides.

Tuesday, 14th October.

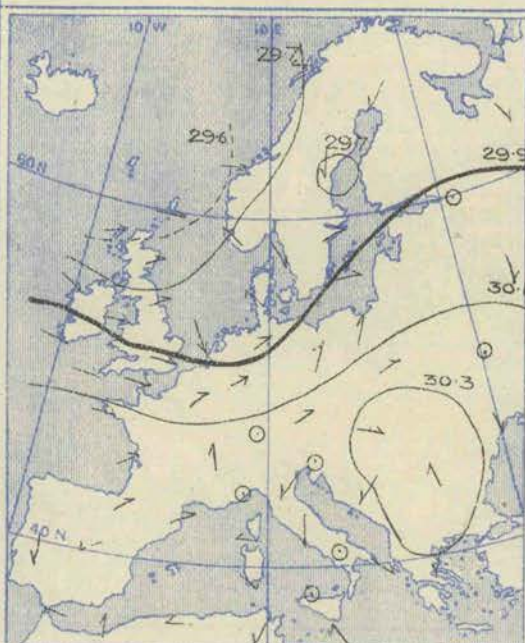
Temperature and Weather.

8 a.m.

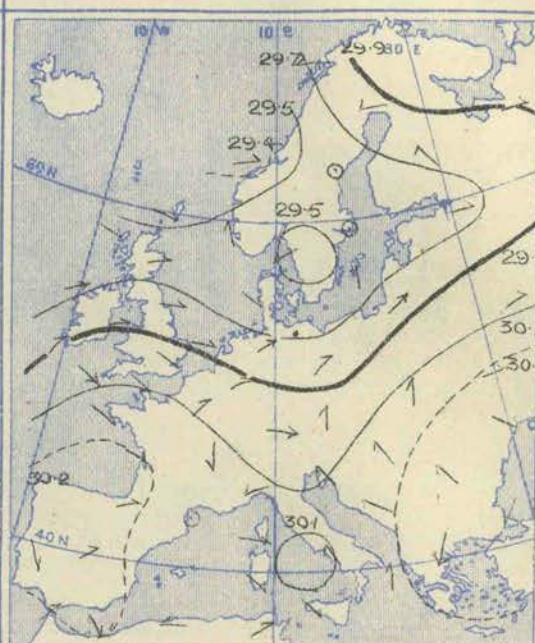


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over southern and eastern Europe, but dull in many parts of Russia; very changeable and unstable over the British Islands—showers with bright intervals. Rain falling later in nearly all parts of western and southern Europe—heavily at several of the Italian stations, and at a few stations in the north and west of the British Islands. Temperature risen over France and the southern and eastern shores of the North Sea, fallen in many parts of the British Islands and over south Germany. Morning readings highest, 71° in Greece, 72° at Barcelona, and above 60° at most of the Mediterranean stations, 57° at Pungness, 56° at Scilly, and above 50° at the coast stations of England and Ireland. Lowest, 15° at Haparanda, 23° at Archangel, 25° at Moscow, and below 40° over Russia and all the north of Scandinavia. Rising later to between 64° and 69° in many parts of England, to 72° at Nice, 77° at Malta, 82° at Tunis.

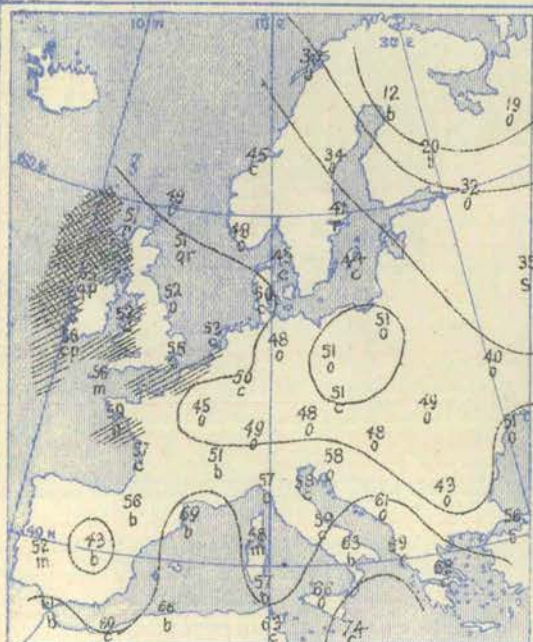
Wind Westerly to South-Westerly over north-western Europe, and blowing strongly in places, nearly Southerly over north Germany; very variable and light over south-eastern and southern Europe, and also in the extreme north. Freshening later over the Baltic, and backing to southward in the west of Ireland, and increasing.

Barometer highest, 30.3 ins. and more over south-eastern Europe, and exceeding 30.2 ins. all over southern Europe and the Mediterranean. Lowest, 29.6 ins. and less to the north of Scotland, 29.7 ins. and less in a small depression near Hernösand, below 29.8 ins. in a shallow secondary over the North Sea. The latter reaching the south of Sweden later, and barometer falling decidedly in the west of Ireland.

Wednesday, 15th October.

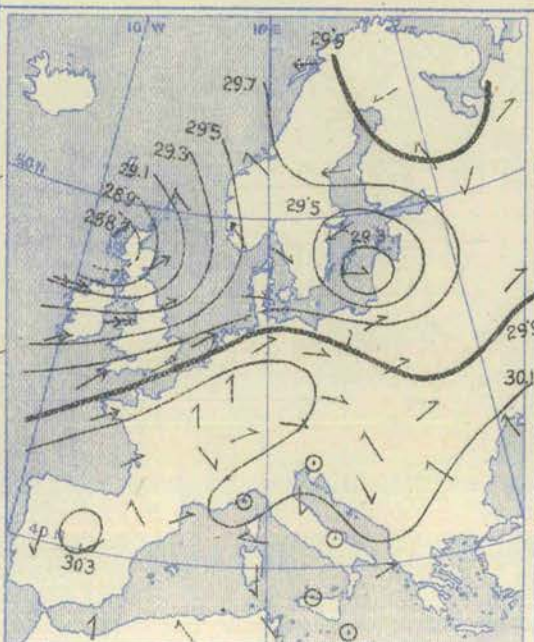
Temperature and Weather.

8 a.m.

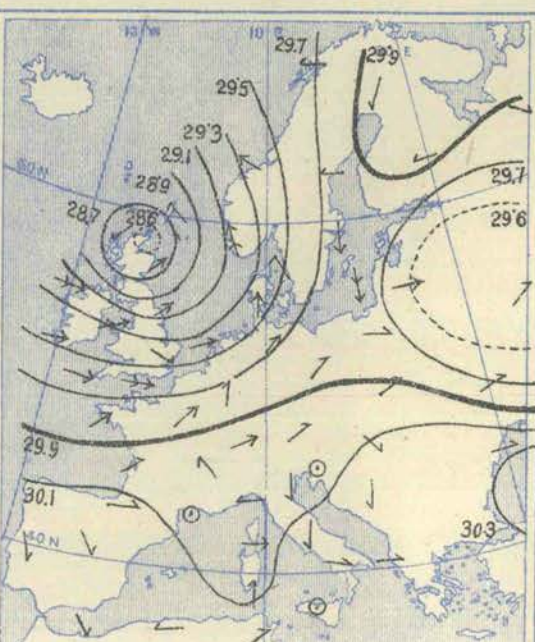


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over southern, and also over extreme northern Europe, very unsettled rough and rainy over the Gulf of Finland, and also over the west and north of the British Islands, becoming unsettled in the south-east. Rainy and squally, later, all over north-western Europe, remaining fair in the far south; rainy and rough over Russia also.

Temperature in morning rising over the United Kingdom and central Europe, fallen in the north of Russia. Morning readings highest, 80° and more on the shores of the Mediterranean, 57° on our own south coasts, and above 50° all over the United Kingdom. Lowest, 12° to 20° over Lapland and the extreme north of the Continent, 34° at Hernösand, 35° at Moscow. Rising later to 68° at Nice, 70° at Naples, 80° at Malta.

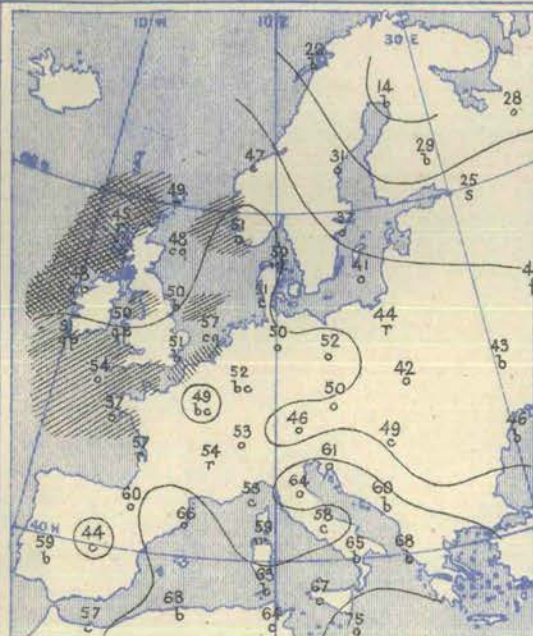
Wind light and variable over the Mediterranean and the extreme southern parts of Europe, stronger elsewhere. (1) An Easterly gale over the Gulf of Finland, and Westerly winds over the Baltic; (2) a Southerly gale in the west of Scotland, a South-Westerly gale over Wales and Ireland. The South-Westerly gales, or strong squally winds, extending later to all our coasts, and veering to West, in Ireland.

Barometer highest, (1) 30.3 ins. to 30.2 ins. over the Peninsula and south-west of France; (2) 29.9 ins. and more over the north of Europe. Lowest, (1) 29.3 ins. and less in a depression over the Mediterranean, and (2) 28.8 ins. and less in a depression advancing to our north-west coasts. Latter system reaching the north of Scotland later, and barometer falling to 28.6 ins. at Wick. Baltic depression advancing eastwards over Russia.

Thursday, 16th October.

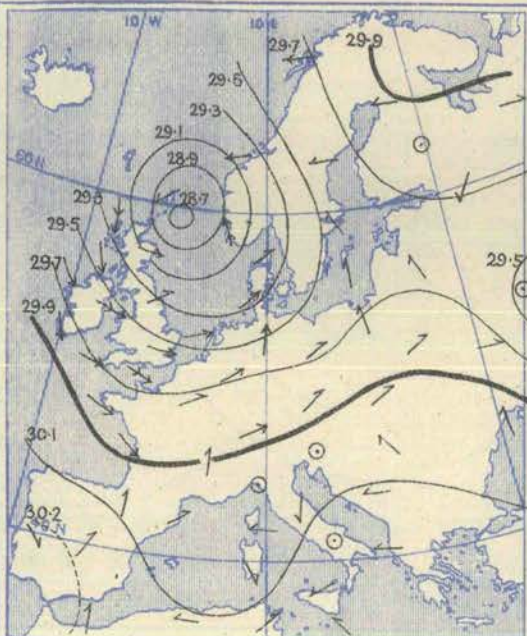
Temperature and Weather.

8 a.m.

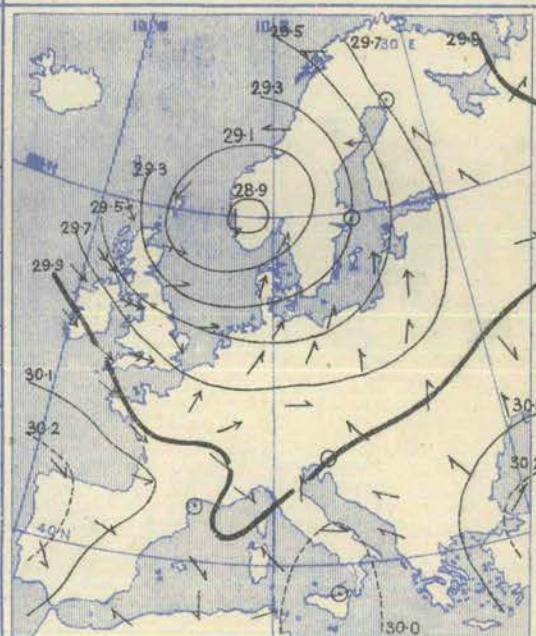


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very unsettled over all the north-western and western countries, with rain or showers in many places, snow at St. Petersburg. Fine in the south of Russia, and also at several Algerian and Italian stations. Rain falling very generally over our Islands, France, Germany, Denmark, and Scandinavia during day—heavily in many localities.

Temperature fallen in most regions. Readings at 8 a.m. ranging from 75° at Malta, and above 60° on most coasts in southern Europe, to about 50° or a little below over the United Kingdom and the central countries; to below 30° in the extreme north generally, and to 14° at Haparanda and Uleaborg. Only 44° at Madrid. Rising later to 61° at Dungeness, to about 70° at many stations in southern Europe and Algeria, to 80° at Malta, and to 84° at southern Europe and Algeria, to 80° at Malta, and to 84° at Pesaro.

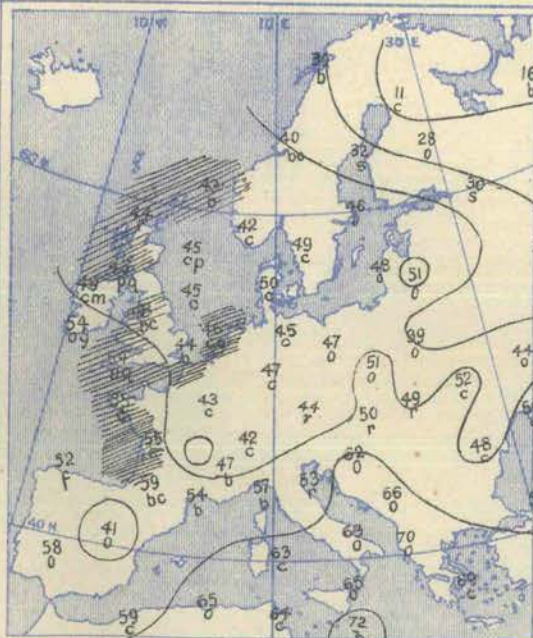
Wind at 8 a.m. strong to a gale from North-West and West over our Islands, fresh or strong South-West over the Netherlands, the west of Germany, and Denmark, and strong from South-East or East over Scandinavia. Light and variable over southern and south-eastern Europe. Increasing to a gale in Scotland during day, and continuing to blow a moderate or fresh gale over England and Ireland. Veering to North and blowing strongly at Skudesnaes.

Barometer in morning 30.21 ins. at Lisbon, and above 30.1 ins. over the Mediterranean. Lowest, about 29.7 ins. in a deep depression over the northern part of the North Sea; less than 29.5 ins. at Moscow. Former low-pressure system moving eastwards to the south-west of Norway during day, and barometer rising very decidedly over our Islands. System near Moscow either filling up or moving away eastwards.

Friday, 17th October.

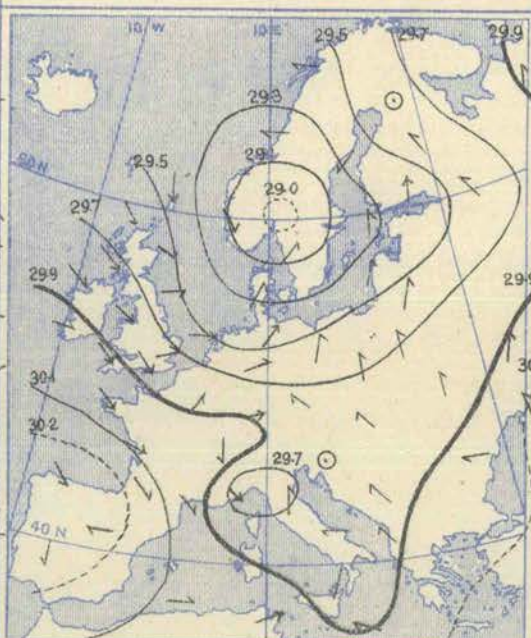
Temperature and Weather.

8 a.m.

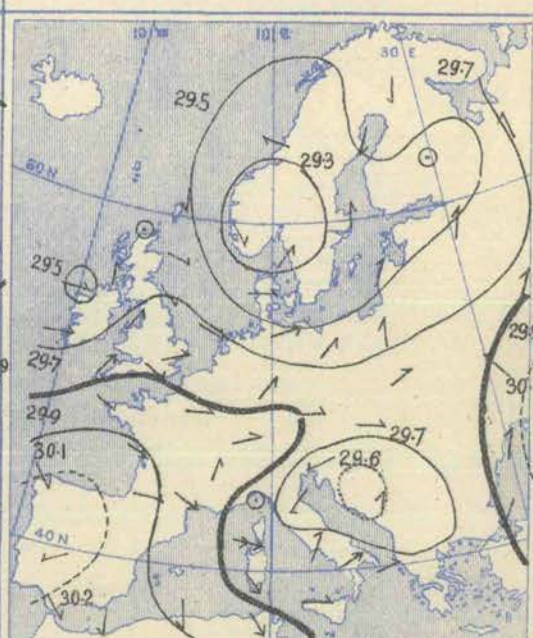


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning greatly improved over the British Islands and France, though still squally and showery in many places, dull and unsettled over Europe generally, rainy in some places. Sky very clear at several stations in the British Islands. Rain falling later over almost the whole of the British Islands and France, but not heavily except at Holyhead. Smaller quantities in several parts of northern Europe, and heavy falls in the southern countries.

Temperature risen rapidly over the Baltic and Gulf of Finland, fallen fast over western Europe, except in Ireland and Spain. Morning readings highest, 72° at Malta, 70° at Brindisi, and above 60° at several of the Adriatic stations, 54° at Scilly and Valencia. Lowest, 11° at Haparanda, 16° at Archangel, 30° at St. Petersburg, 39° at Warsaw, below 50° over the major part of our Islands and central Europe. Rising later to between 50° and 55° over the United Kingdom as a whole, to 60° at Nice, 70° at Lissina, 79° at Palermo, 81° at Laghouat.

Wind North-Westerly moderate to a gale over the British Islands, South-Westerly to Southerly over the greater part of Europe, Easterly in Norway. A separate cyclonic circulation found over the Gulf of Genoa and its neighbourhood. North-Westerly and Westerly gales later over the Mediterranean, and wind backing to West and South-West over the western parts of the British Islands, but not increasing much in force.

Barometer in morning highest, 30.2 ins. and more to 30.1 ins. over the south-western parts of Europe, and above 30.0 ins. in the south of Russia. Lowest, 29.0 ins. and less in a depression having its centre near Christiania, and below 29.7 ins. in another over the north-eastern parts of the Mediterranean. The northern depression filling up greatly later, that in the south developing and becoming much more extensive, and a new one appearing off the north-west of Ireland.

Saturday, 18th October.

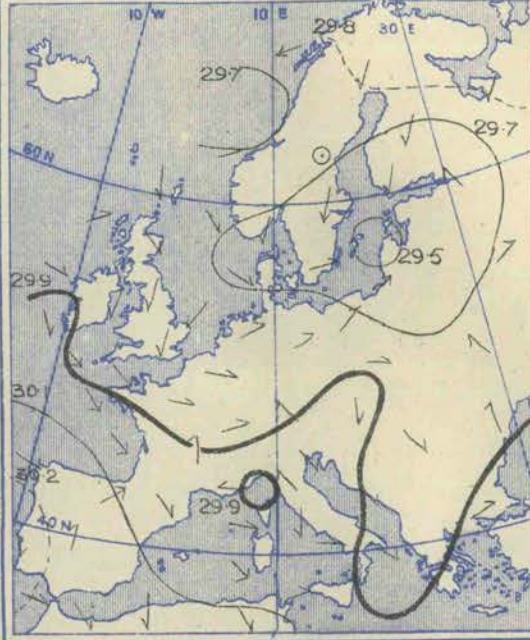
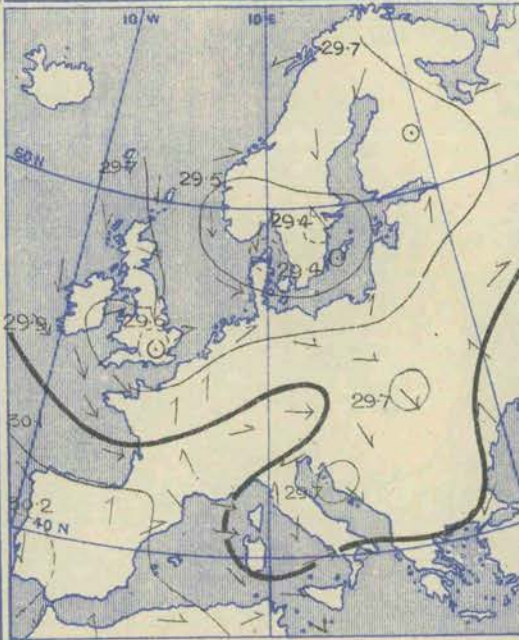
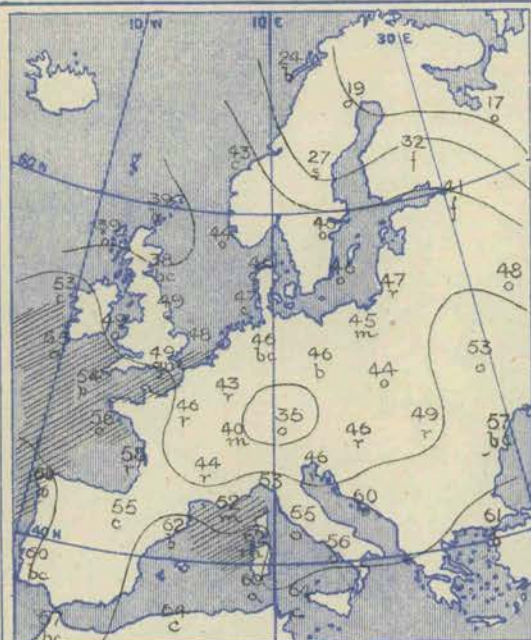
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in a few isolated localities, but cloudy or dull generally. Rain at some French, German, and Austrian stations, and showery over England. Rain or snow falling at Helsingfors and Karlskrona. Slight rain falling during day in many parts of the United Kingdom, and heavier amounts in most Continental countries. Very little or none in the Spanish Peninsula, Algeria, and the extreme south of France.

Temperature at 8 a.m. highest, 66° at Malta, 63° at Brindisi, and 60° or a little above at many southern stations. Lowest, 17° at Archangel, 19° at Haparanda, 24° at Bodö, slightly below 40° in the north and east of Scotland, and 35° at Munich. Maxima during day ranging from above 70° at Constantinople, and on various shores of the Mediterranean, to less than 65° over central and southern Europe generally, to less than 60° over our Islands, and to less than 30° in the extreme north of Russia and Scandinavia.

Wind in morning showing three distinct cyclonic circulations of moderate to strong winds, (1) around the south of Scandinavia, (2) over our own southern counties, and (3) over the Adriatic, Italy, and the Gulf of Genoa. Cyclonic movements becoming less well-defined by evening, and wind decreasing in force in most places.

Barometer at 8 a.m. highest, 30.2 ins. to 30.1 ins. over the Iberian Peninsula, the western part of Algeria, and the intervening portion of the Mediterranean. Lowest, 29.4 ins., or less, in the neighbourhoods of Stockholm and the Scaw; below 29.6 ins. over the extreme south-east of England; below 29.7 ins. over the central parts of the Adriatic, and also near Lemberg. Two last-mentioned minima partially dispersing during day, and those over Scandinavia and the south-east of England travelling eastwards, and decreasing somewhat in depth.

GENERAL NOTES.

The weather experienced over Europe during this week may be best considered under two sections. Over the western portion pressure has been almost constantly highest at the southern stations, but lowest in the north, and a series of depressions has been passing over the British Islands, keeping the weather in a most changeable condition and causing rain daily. One of these (that of October 14-16) proved to be of great size and intensity, the barometer falling to less than 29.7 ins. over the north of Scotland at 6 p.m. on the 15th, and with this system cyclonic winds were experienced, varying in force from a strong breeze to a heavy gale, and in direction from South to West and North-West. Over the south of France there were other

systems changing greatly in form, but neither so large or deep as that referred to above. In Russia there were some shallow systems over the southern districts during the early part of the week, but subsequently other systems appeared either developed over the Baltic, or advancing to the northern districts from the Atlantic, and causing much disturbance during their progress.

The condition over Europe generally has consequently been far from quiet, and the cold experienced between the depressions as they moved over was temporarily very severe, and at the close of the period there was no indication of settled fair weather.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ————— = a gale; ————— = a fresh to strong breeze; ————— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 248.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	23.7	+ 5.3	34	+ 8	WORKSOP	12.9	- 6.5	18	- 9	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	21.8	+ 0.6	31	+ 1	THURCASTON	15.4	- 5.0	21	- 7	SOUTHPORT	22.6	—	31	—
EDINBURGH	19.4	+ 0.9	27	+ 1	MARGATE	17.7	- 7.1	24	- 10	RHYL	—	—	—	—
MORPETH	35.5	—	49	—	BROADSTAIRS	20.0	—	27	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	24.0	—	33	—	EASTBOURNE	30.7	+ 3.0	42	+ 3	ABERDOVEY	22.0†	—	30†	—
YORK	23.9	+ 4.3	33	+ 6	BRIGHTON	24.8	- 3.7	34	- 5	TENBY	22.8	- 1.9	31	- 3
CROMER	23.4	—	32	—	WORTHING	28.4	—	38	—	NEWQUAY	21.0	- 4.7	28	- 7
LOWESTOFT	17.0	—	23	—	BOGNOR	28.9†	—	39†	—	TORQUAY	32.8	+ 7.2	44	+ 10
DUNMOW	18.5	—	25	—	WATERGATE	25.4	—	34	—	GUERNSEY	26.8†	- 0.2	36†	0
HOLLESLEY BAY	18.8	—	25	—	WESTBOURNE	26.8†	+ 0.2	36†	0					
SHEFFIELD	18.0	—	25	—	VENTNOR HOSPITAL	29.6	+ 0.9	40	+ 1					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 43.]
Fourth Series.

WEEK ENDING SATURDAY, OCTOBER 25TH, 1902.

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post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The Daily Mean is obtained from the maxima and minima by applying a suitable correction determined for each month. The Mean for the Week is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The Means with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The Mean Amounts are those for the corresponding periods in the thirty-five years 1866-1900, but the Mean numbers of Rainy Days are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The Mean Values employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 254.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	26	52.7	40.2	46.2	2 above	Day-deg. 37	Day-deg. + 7	Day-deg. 5	Day-deg. - 6	Day-deg. 1704	Day-deg. - 190	Day-deg. 682	Day-deg. + 71
	1. SCOTLAND, EAST	60	25	53.4	39.1	46.0	1 above	40	+ 7	8	- 5	1879	- 364	754	+ 80
	2. ENGLAND, N.E.	62	33	55.0	42.2	48.4	2 above	45	+ 6	0	- 7	2282	- 167	522	- 9
	3. ENGLAND, EAST	62	29	55.4	40.8	47.9	0 (average)	46	+ 2	3	- 5	2701	- 131	519	- 64
	4. MIDLAND COUNTIES	61	30	55.8	42.0	48.7	2 above	47	+ 6	0	- 10	2561	- 212	523	- 79
5. ENGLAND, SOUTH	63	30	57.8	42.8	50.1	1 above	57	+ 4	0	- 5	2359	- 237	358	- 71	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	59	30	54.8	43.4	49.0	3 above	49	+ 11	0	- 7	2212	- 166	487	+ 30
	7. ENGLAND, N.W.	62	34	55.0	45.8	50.3	3 above	58	+ 15	0	- 5	2435	- 179	421	- 10
	8. ENGLAND, S.W.	62	31	57.2	45.0	50.9	2 above	62	+ 10	0	- 3	2791	- 105	324	- 5
	9. IRELAND, NORTH	60	37	55.2	45.4	50.2	3 above	57	+ 17	0	- 6	2308*	- 204	339	- 49
	10. IRELAND, SOUTH	62	38	56.9	47.7	52.2	4 above	71	+ 23	0	- 5	2800	- 53	240	- 44
	— CHANNEL ISLANDS	61	45	58.9	50.7	54.7	2 above	89	+ 16	0	0	3327	- 38	99	- 24

DISTRICTS. (See p. 254.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	19	7 more	209	+ 23	37.4	- 1.9	19	+ 2	28	+ 4	1025	- 28	26	- 1
	1. SCOTLAND, EAST	5	5	2 less	176	+ 17	20.4	- 4.9	19	0	28	0	1053	- 151	27	- 4
	2. ENGLAND, N.E.	4	2	5 less	154	+ 8	17.8	- 2.7	17	0	24	0	1132	- 56	29	- 2
	3. ENGLAND, EAST	4	2	4 less	147	0	18.9	- 1.4	16	- 8	23	- 11	1442	- 68	35	- 2
	4. MIDLAND COUNTIES	4	4	3 less	148	+ 7	20.2	- 2.4	16	- 3	23	- 5	1198	- 48	32	- 1
5. ENGLAND, SOUTH	4	4	3 less	144	+ 7	20.7	- 1.8	21	- 4	29	- 6	1463	- 100	37	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	16	4 more	183	+ 17	39.1	- 0.7	17	- 1	25	- 1	1171	- 84	30	- 2
	7. ENGLAND, N.W.	5	7	2 less	172	+ 17	23.2	- 4.7	18	- 2	25	- 2	1346	+ 85	35	+ 2
	8. ENGLAND, S.W.	4	5	5 less	156	- 3	25.2	- 6.6	18	- 5	25	- 7	1423	- 103	37	- 3
	9. IRELAND, NORTH	6	11	2 more	202	+ 19	28.8	+ 0.2	15	- 4	22	- 5	1137	- 26	29	- 1
	10. IRELAND, SOUTH	5	7	3 less	166	- 1	26.6	- 5.6	14	- 8	20	- 12	1298	- 30	33	- 1
— CHANNEL ISLANDS	4	4	6 less	166	+ 7	22.3	- 3.2	20	- 6	28	- 8	1603	- 171	42	- 4	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period has been mostly mild, with much cloud, and not infrequent falls of rain. The latter was very heavy at times in the north and west of Scotland, but slight as a whole.

Temperature was just equal to the mean in England E., but was again above it in all other districts—as much as 3° to 4° over Ireland. The highest of the maxima occurred either on the 24th or 25th, when they varied from 63° in England S. and 62° in several other districts to 59° in Scotland W. The lowest of the minima were recorded, as a rule, on Sunday or Monday, and ranged from 25° in Scotland E., 26° in Scotland N. and 29° in England E., to 37° or 38° in Ireland, and to 45° in the Channel Islands.

Rainfall was less than the mean very generally, but exceeded it in Ireland N., Scotland W., and Scotland N. In the last named district the excess was large.

Bright Sunshine, which was very equably distributed, was less than the mean in all but the most northern districts. The percentage of the possible duration ranged from 29 in England S., 28 in the Channel Islands and the north and east of Scotland, to 20 in Ireland S.

Barometer and Wind.—The changes both of pressure and wind have been frequent over our Islands during this period, but the disturbances that have affected the former have not been very deep, and as their centres have been confined to the more northern districts, the winds have varied in direction between S., S.W., and W. These winds increased at times to a fresh or strong breeze in the west and north-west, and on Thursday night to a moderate or fresh gale, while at the end of the week a fresh to strong gale was blowing on several parts of our north-western coasts.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	53	35	50.3	41.6	45.8	+ 0.9	28	1	7	0.84	- 0.16	*	*	*
	Stornoway	57	36	54.1	39.6	46.6	+ 2.0	42	7	7	1.47	+ 0.27	22.2	+ 4.5	33
	Wick	58	29	53.1	35.4	45.5	+ 0.3	40	10	7	0.77	+ 0.08	*	*	*
	Laing	60	26	55.9	39.1	47.4	+ 4.6	49	7	6	1.04	+ 0.17	*	*	*
	Glencarron	54	35	50.5	41.0	45.6	+ 1.5	29	3	7	3.03	+ 0.98	*	*	*
	Fort Augustus	55	31	52.0	39.5	45.6	+ 0.2	36	7	7	1.45	+ 0.50	12.8	+ 0.6	19
1. SCOTLAND, E.	Fort William	55	35	52.8	42.0	47.2	+ 0.9	36	0	7	4.54	+ 2.79	9.0	- 6.4	13
	Nairn	60	28	55.0	39.4	47.0	+ 2.2	46	7	3	0.63	+ 0.09	*	*	*
	Aberdeen	58	28	53.3	37.7	45.3	- 0.4	41	12	5	0.42	- 0.26	22.3	+ 1.9	33
	Braemar	55	25	49.7	35.7	42.5	+ 0.4	30	18	5	0.59	- 0.31	*	*	*
	Ochertyre	57	33	53.6	40.1	46.7	+ 1.6	41	5	5	0.88	- 0.08	*	*	*
	Leith	60	32	56.0	41.3	48.4	+ 1.5	48	2	4	0.26	- 0.20	*	*	*
2. ENGLAND, N.E.	Marchmont	57	34	52.7	40.1	46.2	+ 1.7	37	5	5	0.40	- 0.40	16.0	- 1.9	24
	Alnwick Castle	58	33	54.9	41.1	47.8	+ 1.7	44	3	4	0.12	- 0.63	*	*	*
	Durham	60	33	54.3	41.9	47.9	+ 2.2	42	0	4	0.15	- 0.55	16.8	- 1.8	24
	Shields	60	38	55.1	42.9	48.3	+ 2.2	45	0	4	0.12	- 0.49	*	*	*
	Scarborough	62	34	55.9	40.6	48.0	+ 0.6	48	4	3	0.17	- 0.56	20.2	-	29
	Spurn Head	57	43	54.7	45.4	49.9	+ 1.3	55	0	3	0.24	- 0.30	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	58	33	55.1	41.4	48.1	+ 1.8	45	2	3	0.29	- 0.24	9.7	-	14
	Hillington	58	30	54.5	39.6	46.8	- 0.3	44	7	5	0.40	- 0.23	10.4	- 9.8	15
	Yarmouth	62	38	55.1	41.6	48.2	- 0.1	45	1	4	0.14	- 0.51	*	*	*
	Geldeston	58	35	55.6	42.0	48.6	+ 0.4	46	0	4	0.21	- 0.39	15.1	- 8.3	22
	Cambridge	60	29	57.3	39.8	48.3	+ 1.0	53	6	3	0.21	- 0.32	13.8	- 8.6	20
	Felixstowe	57	36	54.9	42.8	48.7	+ 0.5	47	0	3	0.24	-	20.8†	-	30†
4. MIDLAND COUNTIES	Rothamsted	58	31	55.1	39.2	46.9	+ 0.3	46	8	4	0.22	- 0.44	17.3	- 5.5	25
	Harrogate	61	38	54.1	42.6	48.2	+ 2.7	43	0	5	0.77	+ 0.03	18.7	-	27
	Bawtry (Hesley Hall)	58	36	55.6	42.1	48.7	+ 2.6	47	0	3	0.27	- 0.33	*	*	*
	Loughborough	59	34	56.6	41.9	49.0	+ 2.0	49	0	3	0.32	- 0.28	*	*	*
	Colly Weston (Stamford)	59	36	55.6	41.3	48.2	+ 1.2	46	2	4	0.19	- 0.41	*	*	*
	Cheadle	61	38	55.0	42.9	48.8	+ 3.4	48	0	4	0.66	- 0.09	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	60	39	55.5	44.6	49.9	+ 3.1	55	0	3	0.21	- 0.42	11.2	-	16
	Churchstoke	59	37	55.5	43.0	49.1	+ 3.2	50	6	4	0.33	- 0.45	19.5	+ 0.2	28
	Hereford	60	37	57.1	43.3	50.0	+ 2.9	56	0	3	0.16	- 0.47	*	*	*
	Cirencester	60	30	56.0	37.4	46.4	+ 0.2	50	13	4	0.31	- 0.40	21.9	+ 0.6	31
	Oxford	60	33	56.7	40.6	48.4	+ 1.1	51	4	3	0.28	- 0.29	18.0	- 3.3	26
	London	61	35	57.6	40.3	48.7	+ 0.2	54	5	5	0.20	- 0.38	11.04	- 5.04	164
6. SCOTLAND, W.	Swarraton (Alresford)	59	30	56.7	36.7	46.4	- 0.2	53	15	4	0.40	- 0.36	*	*	*
	Dungeness	60	39	57.7	42.6	49.9	0.0	55	0	3	0.63	- 0.09	21.8	-	31
	Hastings (St. Leonards)	60	42	57.2	45.4	51.1	+ 1.3	64	0	4	0.59	- 0.25	20.1	- 5.3	28
	Southampton	63	38	59.3	43.0	51.2	+ 1.8	64	0	4	0.32	- 0.45	23.4	- 0.6	33
	Portland Bill	60	46	58.1	48.3	53.1	+ 3.3	78	0	5	0.37	-	*	*	*
	Shaftesbury	60	41	57.4	43.6	50.3	+ 3.6	58	0	4	0.41	- 0.43	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	58	36	54.6	42.3	48.3	+ 1.8	44	0	7	3.00	+ 1.32	*	*	*
	Glasgow	56	36	52.6	43.1	47.7	+ 2.2	40	0	6	0.81	- 0.04	16.1	+ 2.1	24
	Gally	59	30	57.2	42.2	49.5	+ 3.2	53	0	5	1.32	+ 0.22	*	*	*
	Douglas (Isle of Man)	57	33	54.8	46.0	50.3	+ 2.8	58	0	5	1.24	+ 0.20	18.6	- 3.1	27
	Newton Reigny	58	34	53.1	42.6	47.7	+ 2.6	40	0	5	0.54	-	13.0	-	19
	Stonyhurst	56	40	52.9	44.5	48.6	+ 2.4	46	0	6	1.35	+ 0.23	14.7	- 3.3	21
8. ENGLAND, S.W.	Blackpool	56	44	55.2	48.2	51.6	+ 4.0	67	0	6	0.79	- 0.15	18.4	+ 0.1	27
	Manchester (Prestwich)	59	37	54.8	43.3	48.9	+ 2.4	48	0	6	0.91	+ 0.01	13.3	-	19
	Liverpool Obsy. (Bidston)	59	39	55.6	46.9	50.6	+ 2.5	60	0	5	0.59	- 0.17	19.8	-	28
	Chester	62	35	57.9	46.3	51.9	+ 3.4	69	0	4	0.46	-	*	*	*
	Llandudno	58	40	55.9	48.1	51.9	+ 2.5	60	0	5	0.34	- 0.55	16.4	- 1.7	23
	Holyhead	57	41	54.7	47.7	51.1	+ 1.4	64	0	4	0.94	- 0.03	*	*	*
9. IRELAND, N.	Llandoverly	60	31	56.1	42.3	49.0	+ 2.5	49	0	4	0.44	- 0.81	*	*	*
	Pembroke	57	46	56.6	49.0	52.7	+ 2.3	75	0	3	0.35	- 0.59	13.4	- 8.6	19
	Clifton	60	42	56.8	40.5	51.5	+ 3.4	67	0	3	0.24	- 0.61	*	*	*
	Bath	62	30	57.9	41.1	49.3	+ 1.1	55	3	2	0.12	- 0.58	18.5	-	26
	Arlington (N. Devon)	60	41	56.1	44.6	50.2	+ 2.1	57	0	5	1.36	- 0.04	*	*	*
	Cullompton	62	37	58.2	42.0	49.9	+ 2.5	55	0	5	0.57	- 0.31	18.9	- 1.4	27
10. IRELAND, S.	Falmouth	59	46	57.4	47.9	52.5	+ 1.7	74	0	5	0.39	- 0.81	26.3	+ 1.7	37
	Plymouth	61	40	58.6	46.3	52.3	+ 2.0	72	0	4	0.56	- 0.28	18.8	- 3.6	27
	Malin Head	58	45	54.0	47.4	50.6	+ 2.4	60	0	6	0.89	+ 0.20	*	*	*
	Edenfel (Omagh)	58	39	53.9	44.7	49.2	+ 4.1	50	0	7	1.22	+ 0.37	*	*	*
	Blacksod Point	59	46	56.0	48.6	52.2	+ 3.0	71	0	6	1.89	+ 0.70	*	*	*
	Markree Castle	60	38	56.2	44.5	50.2	+ 3.9	57	0	6	1.17	+ 0.22	10.5	- 8.3	15
CHANNEL ISLANDS	Armagh	58	38	55.7	44.1	49.7	+ 3.6	54	0	6	0.77	+ 0.12	20.3	+ 1.3	29
	Donaghadee	58	37	55.4	43.0	49.0	+ 1.5	49	0	4	0.53	- 0.19	*	*	*
	Dublin	61	42	57.3	47.4	52.2	+ 3.9	71	0	4	0.22	- 0.43	17.9	- 5.4	26
	Parsonstown	59	38	56.1	45.4	50.6	+ 4.2	60	0	6	0.72	+ 0.06	15.2	- 5.8	22
	Kilkenny	59	38	55.9	46.0	50.8	+ 3.4	62	0	4	0.59	- 0.11	*	*	*
	Roche's Point	59	39	56.9	48.3	52.5	+ 2.3	74	0	6	0.53	- 0.44	*	*	*
CHANNEL ISLANDS	Valencia	59	44	57.4	49.4	53.3	+ 2.9	79	0	6	1.34	+ 0.06	8.7	- 13.1	12
	Killarney	62	40	57.8	48.9	53.2	+ 4.1	78	0	5	0.42	- 0.91	*	*	*
	Foynes	59	42	57.0	48.3	52.5	+ 4.5	74	0	4	0.80	- 0.08	*	*	*
	Scilly (St. Mary's)	60	50	57.7	51.7	54.6	+ 2.0	88	0	3	0.26	- 0.60	19.5	-	28
CHANNEL ISLANDS	Jersey	61	45	60.1	49.7	54.8	+ 2.3	90	0	5	0.45	- 0.56	23.5	- 3.7	33

Stations Marked *fl* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

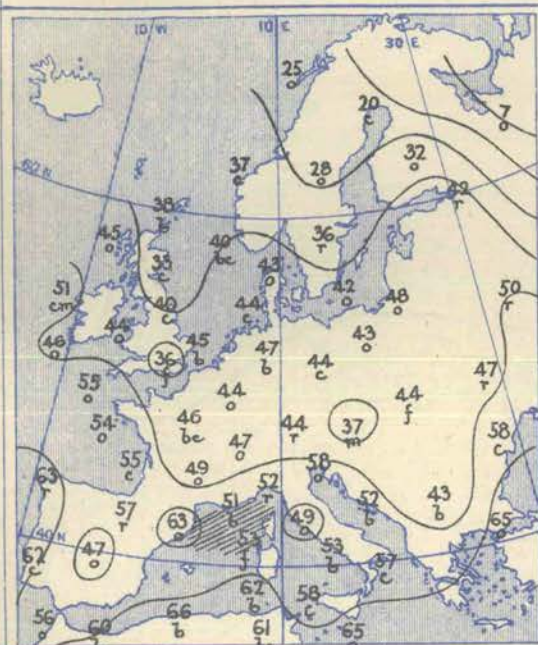
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 19th October.

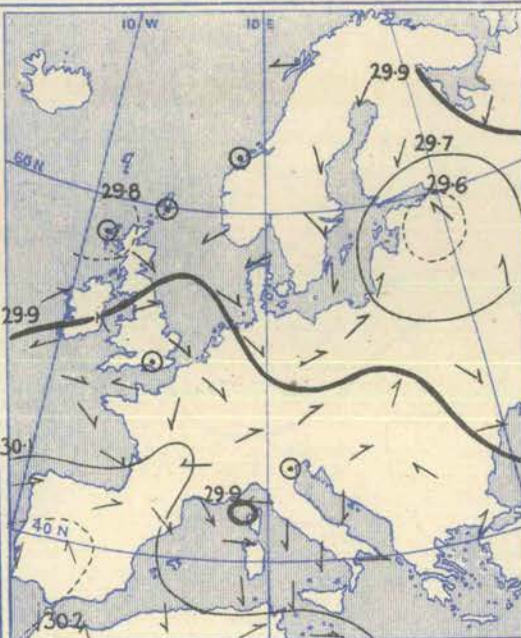
Temperature and Weather.

8 a.m.

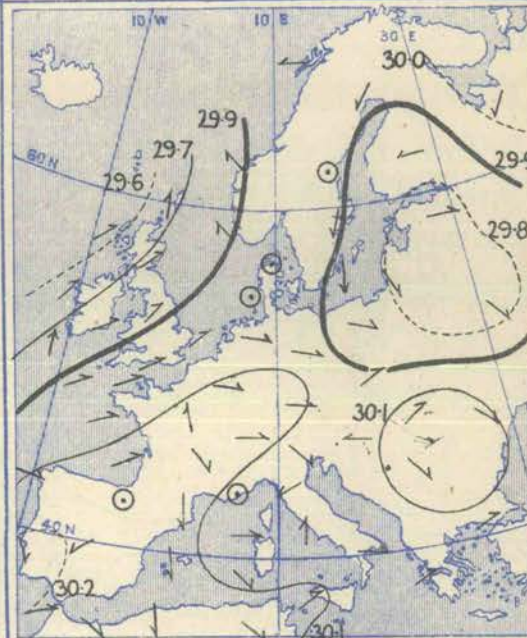


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but bright at most Algerian stations. Snow falling at Uleaborg, rain at Stockholm, in many parts of Russia, on the southern shores of the Bay of Biscay, and in the north of Italy. Rain falling very generally over the United Kingdom and Italy later, and also in some French localities.

Temperature fallen in most regions. Readings at 8 a.m. ranging from 66° at Algiers, and above 60° on the western coasts of the Spanish Peninsula and on some Mediterranean shores, to below 50° over Europe as a whole, to 33° at Oxford and Aberdeen, 29° at Haparunda, and to 7° at Archangel. Rising subsequently to 79° at Algiers, 77° at Palma, 75° at Athens, nearly 70° in the Riviera, and to 63° in the west of France. Remaining below 60° over the central and more northern countries, and not exceeding 50° in many parts of Germany, Austria, and Scotland.

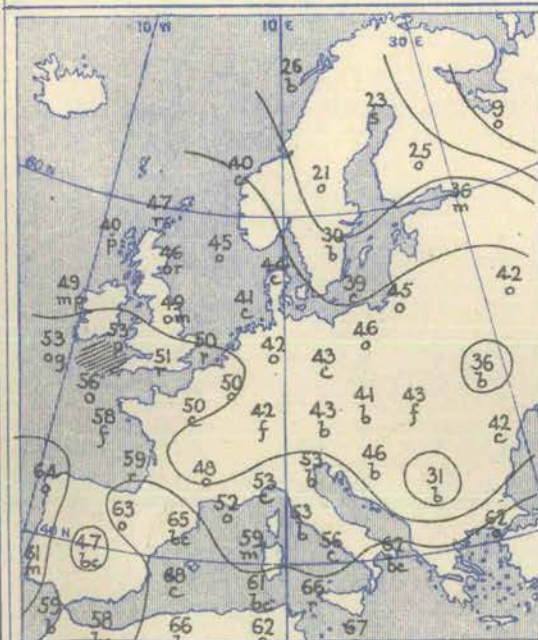
Wind light and variable over our Islands, and light and anticyclonic over the Iberian Peninsula. Light and irregularly cyclonic over Russia, Finland, and the Baltic, and cyclonic, moderate to strong, over the Gulf of Genoa and its neighbourhood. Southerly and South-Westerly breezes springing up over the United Kingdom later. Continental cyclonic circulations becoming less well-marked.

Barometer risen except over eastern and southern Russia. Readings at 8 a.m., highest, 30.2 ins. and upwards over the greater part of the Peninsula. Lowest, 29.6 ins. and less in a disturbance of little depth near St. Petersburg, below 29.9 ins. in another system lying between Corsica and the Riviera, less than 29.8 ins. off the north-west of Scotland. Barometer falling rather briskly over our own western and northern districts, but Continental low-pressure systems partially dispersing.

Monday, 20th October.

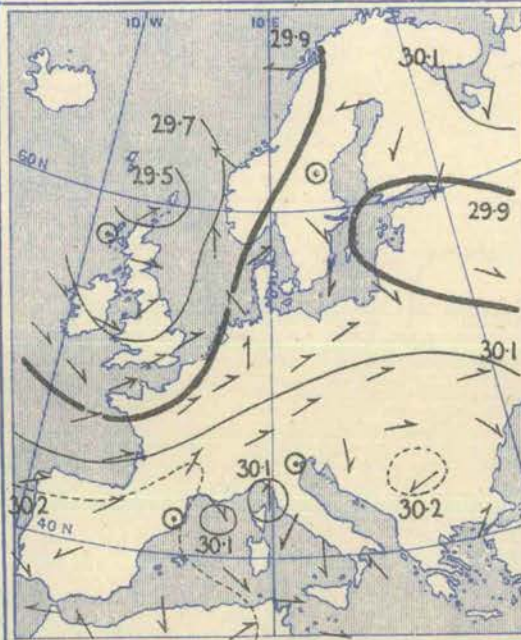
Temperature and Weather.

8 a.m.

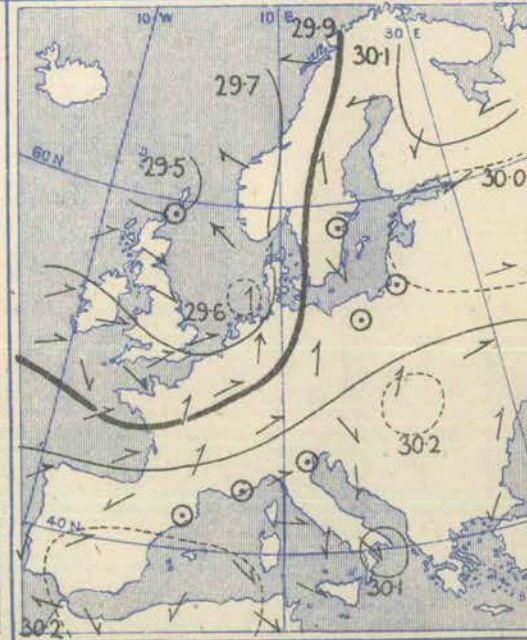


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in some southern localities, but cloudy or dull as a whole. Rainy over our Islands, the west and north of France, and in Holland, and snow falling at Uleaborg. Rain falling later over north-western Europe generally—as much as 1.1 ins. at Brussels, and 0.6 in. at Cape Gris Nez and Fanø.

Temperature fallen over Russia, the Baltic, and Transylvania, risen in most other regions. Readings at 8 a.m. highest, 67° at Malta, 66° at Athens, Palermo, and Algiers, 64° at Corunna, and 59° at Jersey. Lowest, (1) 9° at Archangel, 21° at Haparunda, 26° at Bodø; (2) 31° at Hermanstadt; (3) 42° at Turin; (4) 47° at Madrid. Subsequent maxima 61° at Jersey and in London, 72° at Biarritz and in parts of Spain and Italy, and 75° at Tunis and Athens.

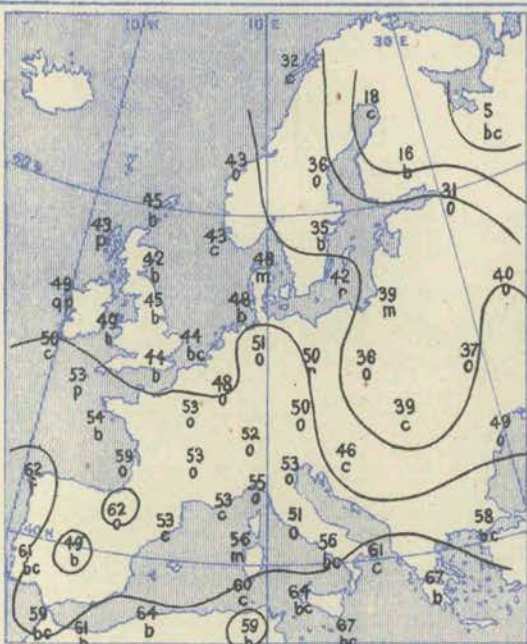
Wind in morning North-Westerly or Westerly on our western coasts, and Southerly or South-Westerly over England, France, the Netherlands, Denmark, and the south of Norway. Light in force generally, but blowing freshly in the English Channel. Light and variable over eastern and southern Europe. No great and general change during day, but wind veering to the Westward over England, and the Southerly current increasing in force at the mouth of the Elbe.

Barometer risen generally, but fallen over our Islands and their neighbourhood. 8 a.m. readings highest, 30.2 ins. and upwards in an anticyclone extending from the Peninsula and the southern portion of the Mediterranean to Lyons, 30.22 ins. at Hermanstadt, and 30.12 ins. at Archangel. Lowest, 29.5 ins. and less off the north of Scotland, and below 29.6 ins. in a "V"-shaped disturbance over England. Pressure increasing again over our Islands during day, and depressions moving eastwards. Barometer changing but little over southern Europe.

Tuesday, 21st October.

Temperature and Weather.

8 a.m.

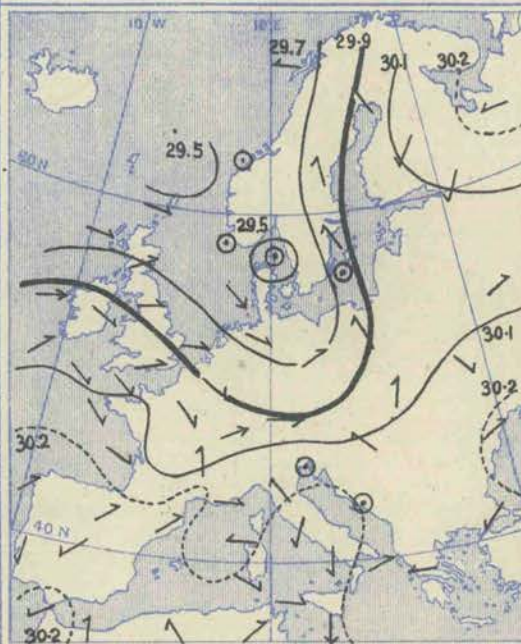


Weather in morning, fine in the north of France and most parts of the United Kingdom, and also in many portions of southern Europe and the Mediterranean. Cloudy or dull in most other regions, with rain in Prussia and the south of Sweden, and showers on our own extreme north-west coasts. Rain later in most countries, but weather continuing dry over Algeria, the Iberian Peninsula, Italy, the south of France, and south-eastern Europe.

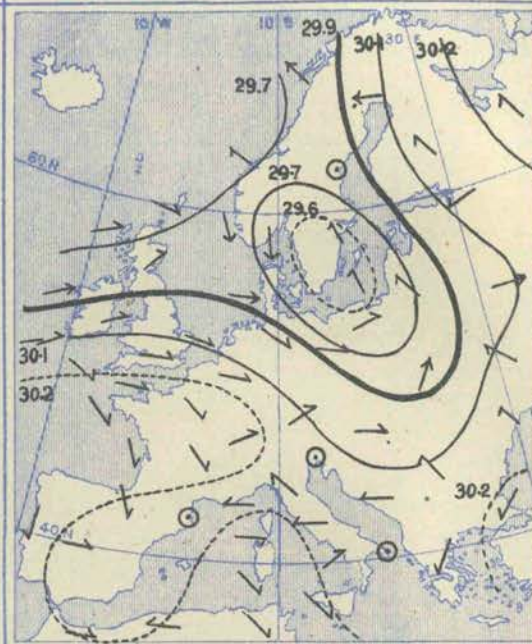
Temperature at 8 a.m. highest, 67° at Athens and Malta, and about 60° at many other stations in the Mediterranean, and also on the Atlantic coast of Spain and Portugal. Lowest, 5° at Archangel, 16° at Kuopio, 32° at Bodö, 39° at Lemberg and Bath, and 40° at Parsonstown. Rising during day to 60° at Dungeness, to 70° or above in the southern parts of France and Italy, as well as in Spain and Greece, and to 79° at Oran. Not exceeding 50° at some stations in central Europe.

Barometer and Wind.

8 a.m.



6 p.m.



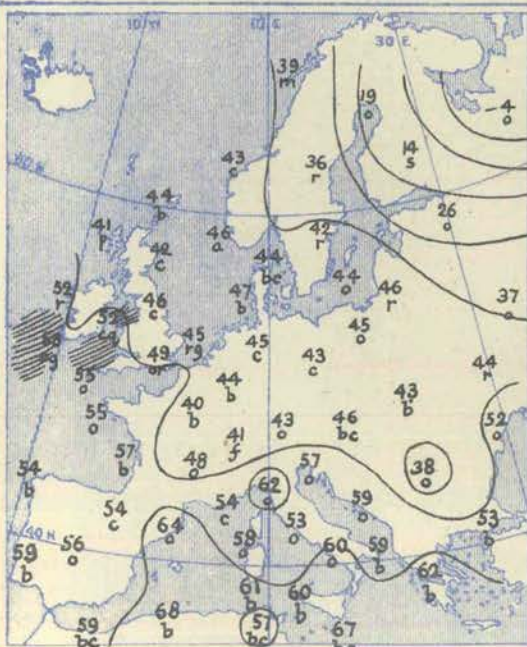
Wind in morning North-Westerly or Westerly over our Islands and the North Sea, Southerly or South-Easterly over the Baltic, and Easterly in the south of Norway. North-Easterly in most parts of northern Europe, and variable in the central and southern. Wind backing somewhat on our western coasts later, and increasing in force and becoming strong from the Northward at the Sea. No other important change.

Barometer at 8 a.m. highest, above 30.2 ins. over the White Sea, the Black Sea, Spain, and nearly all the western part of the Mediterranean. Lowest, less than 29.5 ins. in a depression over the Skager Rack and north of Denmark, and very little higher to the northward of the Shetlands. Barometer rising over England and France during day, and also in the extreme north of Russia. Danish disturbance moving eastwards.

Wednesday, 22nd October.

Temperature and Weather.

8 a.m.

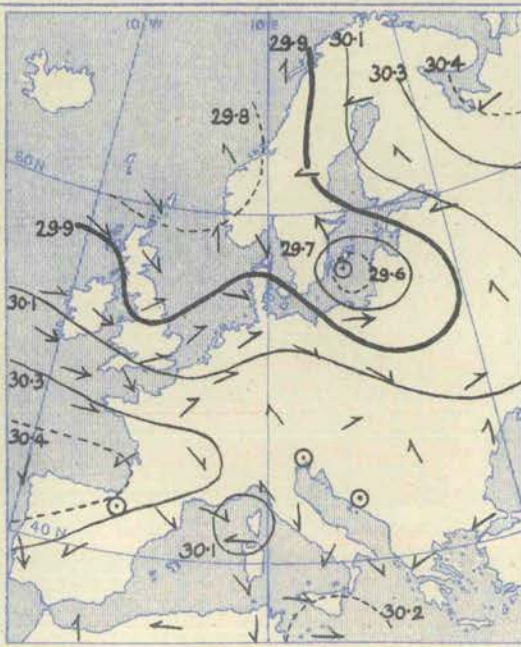


Weather in morning cloudy or dull in most regions, but fine and bright in Algeria, Greece, and most parts of Spain and Portugal. Snow falling in Finland, rain in Sweden and at Memel, and showery conditions prevailing on our own extreme north-west coasts. Rain falling later in various parts of our Islands, and also on many portions of the Continent; as much as 0.7 in. at Cape Gris Nez, 1.1 ins. at Trieste, and 1.3 ins. at Rome.

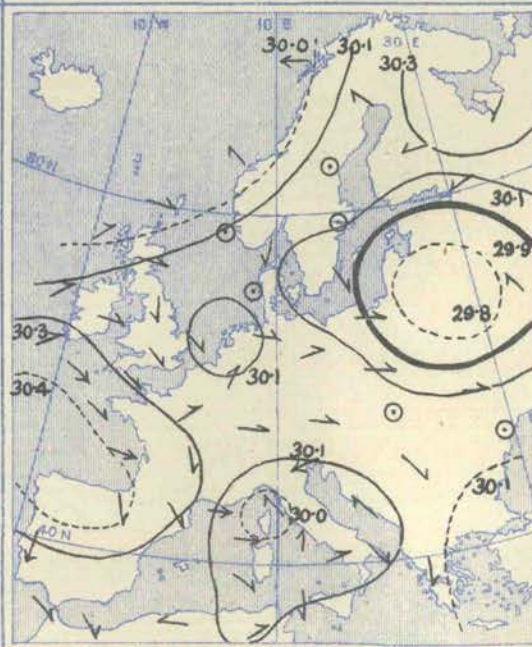
Temperature changed irregularly. 8 a.m. values, highest, 68° at Algiers, 67° at Malta, 64° at Barcelona, and about 60° or a little below in the south generally; 58° at Valencia (Ireland). Lowest, -4° at Archangel, +14° at Kuopio, 26° at St. Petersburg, 29° at Kharkov, and 38° at Wick and Karlstadt. Subsequent maxima below 32° at some stations in the extreme north, and below 60° over all except southern countries, but 75° at Palermo and Patras, and also on the Algerian coast.

Barometer and Wind.

8 a.m.



6 p.m.



Wind at 8 a.m. strong to a slight gale from North-West on our own western coasts, moderate Westerly in Scotland, and South-Westerly over England, the north of France, and the Netherlands. A complete cyclonic circulation shown around the Baltic, the Westerly winds in North Germany, and the South-Easterly wind at Stockholm being strong. Another cyclonic movement around Corsica. Light and anticyclonic over the Bay of Biscay. Wind decreasing in force on our west coasts later, and North-Westerly current extending to England. Baltic cyclonic movement becoming transferred to Russia.

Barometer risen in most places, but fallen over Italy and the Baltic. Readings at 8 a.m. highest, 30.4 ins. and upwards over the Bay of Biscay, and also over the White Sea. Lowest, 29.6 ins. and less in a depression over Gothland, below 29.8 ins. off the west of Norway, and below 30.1 ins. in a shallow system over the Gulf of Genoa and Corsica. Less than 29.9 ins. in a secondary over the north of England. Last mentioned system moving to Holland later, and that over Gothland travelling eastwards to Russia. No other important change.

Thursday, 23rd October.

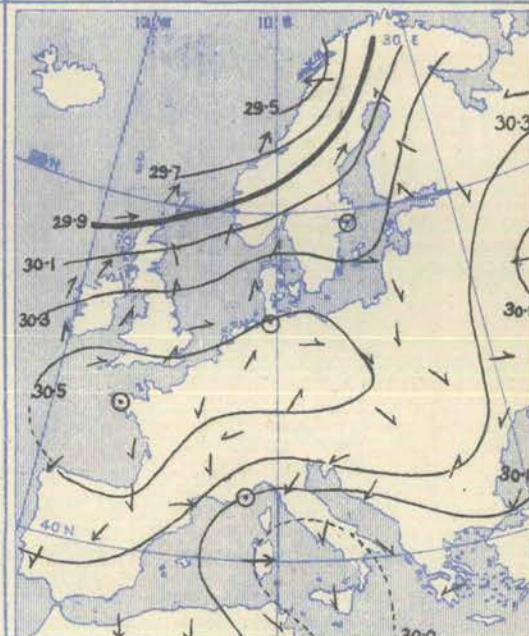
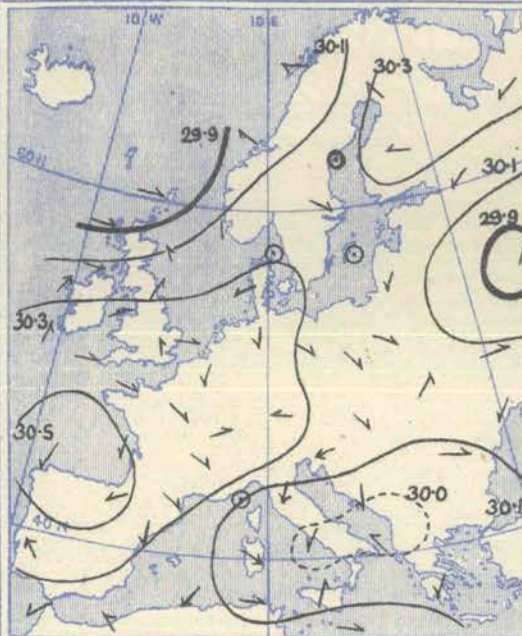
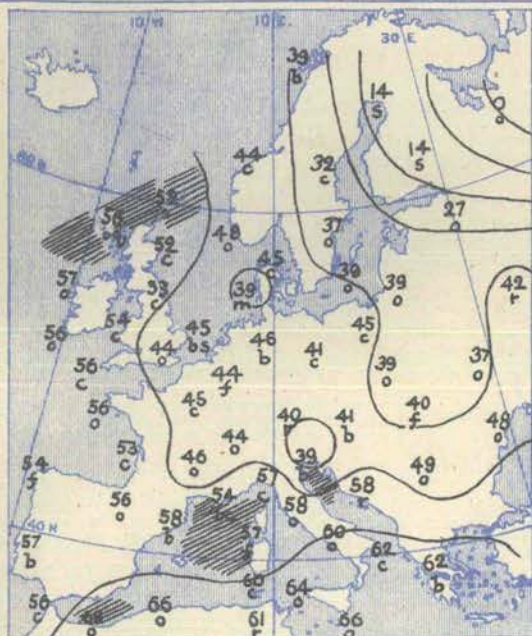
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright in Greece and Tunis; cloudy or dull over Europe as a whole. Fog prevailing at Corunna, Brussels, Oxford, and Yarmouth, snow at Uleaborg, and rain at Pesaro and Moscow. Rain falling later in different Continental localities,—as much as 2.3 ins. at Christiansund, nearly an inch at Brindisi, and 0.4 in. at Hermanstadt.

Temperature at 8 a.m. highest, 63° at Oran, 66° at Algiers and Malta, and slightly above or below 60° at most stations in the extreme south. Lowest, 0° (zero) at Archangel, 14° at Uleaborg and Kuopio, and below 40° in many inland districts of northern and central Europe; below 50° over central and eastern England, and the greater part of France. Rising during day to 60° at a few of our own stations, to about 70° in many parts of southern Europe, 75° at La Calle, 77° at Athens, and 79° at Palermo.

Wind Westerly to South-Westerly over the United Kingdom and the North Sea, and drawing into South or South-East in the west and north of Scandinavia. Light or moderate in most places, but strong in the north-west of Ireland and the south-west of Norway. A light cyclonic circulation prevailing over Russia, and an irregular cyclonic movement over Italy and the neighbouring parts of the Mediterranean. Light anticyclonic airs over Spain and the Bay of Biscay. Wind increasing to a moderate or fresh gale on our north-west and west coasts late in day, and to a strong breeze over Scandinavia.

Barometer risen except over south-eastern Europe and central Russia. Readings at 8 a.m. highest, 30.5 ins. and upwards over the Bay of Biscay, above 30.3 ins. over Finland and northern Russia. Lowest, 29.9 ins. and less, off the north of Scotland, and in the neighbourhood of Moscow, and below 30.0 ins. in a complex depression lying over Italy and the Adriatic. Anticyclone spreading eastwards to Germany and central Europe by evening, and a large depression approaching the north of Norway.

Friday, 24th October.

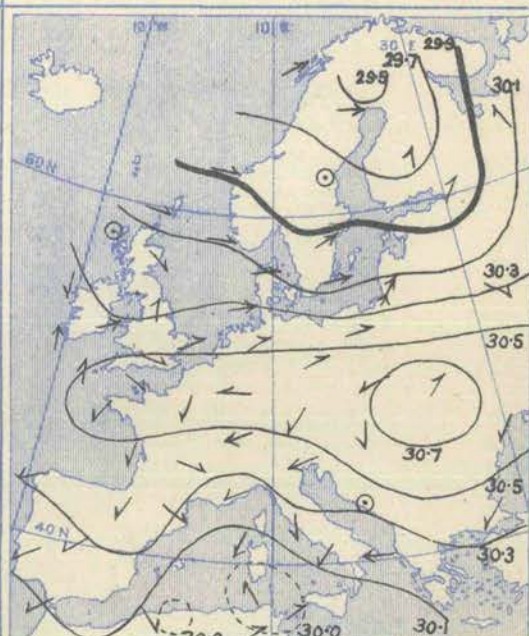
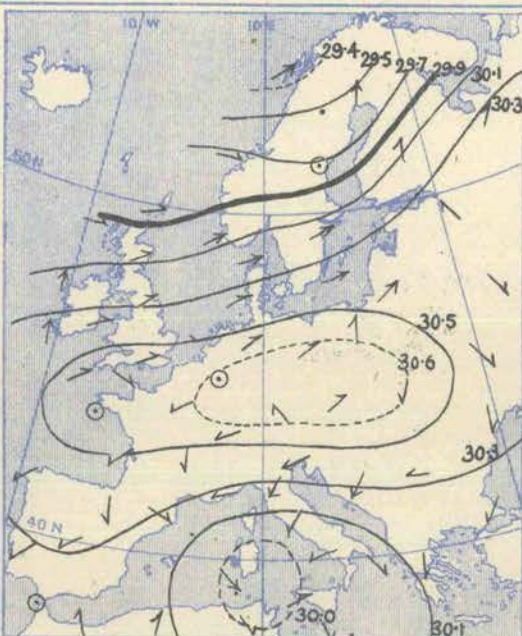
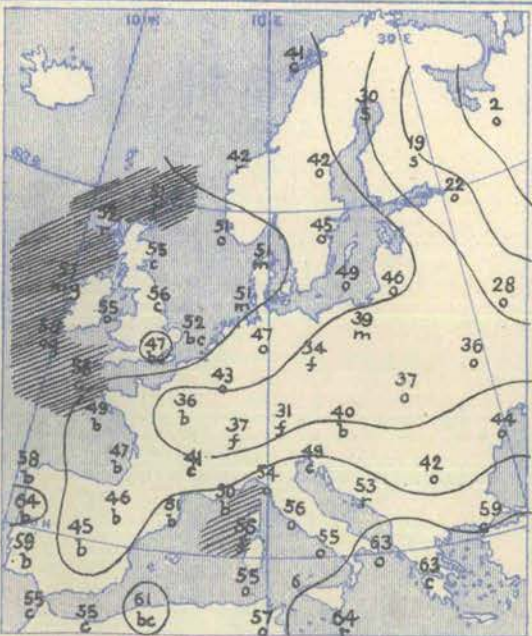
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning clear over the Iberian Peninsula and the west and south of France, cloudy or dull in almost all other regions, with fog over central Europe, rain at Malta, in the north of Scotland and the north-west of Norway, and snow in Finland. Considerable rain falling during day in parts of Ireland and Scotland, and also over the southern portions of Italy, at Malta, and at some Algerian stations.

Temperature risen over the United Kingdom, Scandinavia, and Finland, fallen elsewhere. Readings at 8 a.m. highest, 64° at Malta, 63° or 62° in Greece, at Brindisi, and Oporto; 58° or 57° in the west and south of Ireland. Lowest, 2° at Archangel, 19° at Kuopio, 22° at St. Petersburg, 31° at Warsaw and Munich, 36° at Paris, and 45° at Madrid. Maxima during day about 60° at some of our own north-eastern and southern stations, a little above or rather below 70° over southern Europe and Algeria. Remaining below freezing point in extreme north.

Wind in morning fresh or strong from South in the west of Ireland, and from South-West over all the more northern countries; Easterly or North-Easterly in most southern regions, and strong in force over northern Italy, but Westerly in Tunis. No important or general change in direction later, but force decreasing over our Islands and the northern countries.

Barometer risen briskly over central Europe and Russia, fallen both in the extreme north and over the Mediterranean. Readings at 8 a.m. ranging from above 30.6 ins. in an elongated anticyclone extending from Paris to Lemberg, to 30.0 ins. in a depression between Sardinia and Tunis, and to less than 29.4 ins. in Finland. Anticyclone extending both eastwards and westwards during day, and barometer rising to over 30.7 ins. in Hungary. No other change of importance.

Saturday, 25th October.

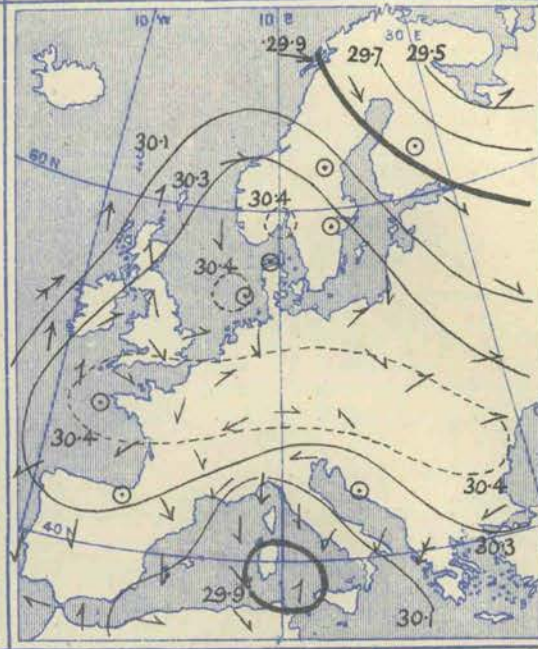
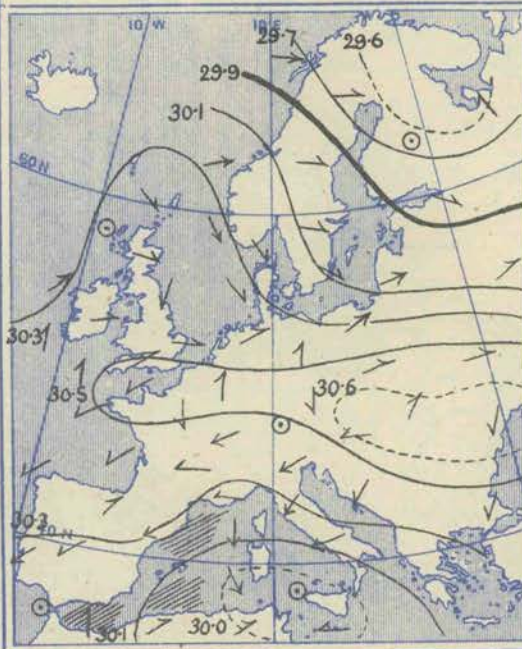
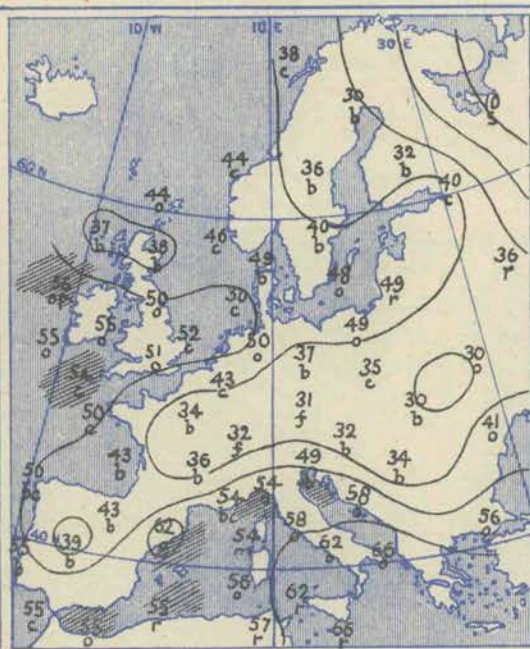
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather at 8 a.m. fine in Scotland, Spain and Portugal, France, and the greater part of central Europe, and also in Sweden, cloudy or dull elsewhere. Raining on the north coast of Africa, at Malta, Palermo, and Copenhagen; snowing at Archangel. Some rain in the north and west of our Islands later, and more than an inch at Cagliari and Malta. Considerable falls also occurring at Sanguinaire, Palermo, and Algiers.

Temperature changed considerably, but irregularly. 8 a.m. values highest, 66° at Malta, 62° at Palermo and Barcelona, and above 50° on the southern coasts of Europe and at most English and Irish stations. Lowest, (1) 10° at Archangel, 30° at Haparanda; (2) 29° or 30° over Little Russia, and some parts of Germany and Austria-Hungary; (3) 34° at Paris; (4) 39° at Madrid. Rising later to about 60° at some of our own stations, and to about 70° in most parts of southern Europe. Maximum at La Calle 77°.

Wind Southerly over Ireland, and from between South-West and North-West over our Islands and the northern half of Europe as a whole. Mainly North-Easterly over the southern regions and the Mediterranean. Light to moderate in strength generally, but strong in Norway and Italy. Increasing to a gale in Ireland by evening, and veering to North-West over Sweden and Finland.

Barometer in morning ranging from 30.5 ins. to above 30.6 ins. in a narrow anticyclonic area, extending from the Scilly Isles to the Black Sea, to below 30.0 ins. over Sardinia and Sicily, and to 29.60 ins. at Archangel. No great change in the general distribution of pressure later, but barometer falling briskly on our extreme western coasts, and gradients becoming steep.

GENERAL NOTES.

During the earlier half of the week two high-pressure areas were generally in existence over Europe—one in the extreme south and south-west, and the other over northern Russia. Within the intervening regions depressions—mostly of moderate intensity—moved in a general easterly or north-easterly direction, and the wind was consequently mainly South-Westerly to North-Westerly over the United Kingdom and the central countries, and Easterly or North-Easterly in the north. Towards the end of the period the south-western high-pressure gradually extended northwards and eastwards, and increased in intensity until, on Saturday, it stretched from the Atlantic off our south-west coasts right across central Europe to the south-

east of Russia. The northern anticyclone at the same time gave way, and an extensive and rather deep cyclonic disturbance moving eastwards over Scandinavia and northern Europe, occasioned a considerable increase in the strength of the wind from South-West and West over all the northern regions. Over the Mediterranean the general condition was rather quiet during the earlier part of the time, but with the anticyclonic band stretching across Europe, a depression of moderate depth caused fresh or strong North-Easterly and Easterly winds over Italy and its vicinity.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; —c = detached clouds; —o = overcast; —m = misty (hazy); —f = foggy; —q = squally; —r = rain; —h = hail; —s = snow; —l = lightning, and —t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.56 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 254.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	23.5	+ 7.0	36	+ 10	WORKSOP	9.5	- 8.1	14	- 11	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	25.7	+ 6.5	38	+ 10	THURCASTON	12.0	- 6.4	17	- 9	SOUTHPORT	18.6	—	27	—
EDINBURGH	18.2	+ 1.4	27	+ 2	MARGATE	—	—	—	—	RHYL	25.4	—	26	—
MORPETH	20.4	—	30	—	BROADSTAIRS	20.8	—	29	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	14.5	—	21	—	EASTBOURNE	18.0	- 6.9	25	- 11	ABERDOVEY	18.5†	—	26†	—
YORK	18.7	+ 1.2	27	+ 2	BRIGHTON	13.4	- 12.4	19	- 18	TENBY	—	—	—	—
CROMER	15.1	—	22	—	WORTHING	23.3	—	33	—	NEWQUAY	4.9	- 19.3	7	- 27
LOWESTOFT	17.1	—	24	—	BOGNOR	22.0†	—	31†	—	TORQUAY	22.8	- 6.2	32	0
DUNMOW	13.5	—	19	—	WATERGATE	23.7	—	35	—	GUERNSEY	16.6†	- 7.4	23†	- 10
HOLLESLEY BAY	19.1	—	27	—	WESTBOURNE	24.1†	+ 9.2	34†	0					
SHEFFIELD	15.9	—	26	—	VENTNOR HOSPITAL	24.2	- 1.8	34	- 2					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 44.]
Fourth Series.

WEEK ENDING SATURDAY, NOVEMBER 1ST, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 260.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.*				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	62	33	53.1	41.9	47.4	4 above	Day-deg. 38	Day-deg. +11	Day-deg. 0	Day-deg. -12	Day-deg. 1742	Day-deg. -179	Day-deg. 682	Day-deg. + 59
	1. SCOTLAND, EAST	61	31	54.6	41.6	47.9	4 above	43	+15	1	-14	1922	-349	755	+ 75
	2. ENGLAND, N.E.	61	36	55.1	44.3	49.5	4 above	53	+18	0	- 9	2335	-149	522	- 18
	3. ENGLAND, EAST	63	33	54.9	42.3	48.4	2 above	45	+ 6	0	-10	2746	-125	519	- 74
	4. MIDLAND COUNTIES	59	33	54.7	43.6	49.0	4 above	49	+12	0	-12	2610	-200	523	- 91
5. ENGLAND, SOUTH	61	28	55.1	42.6	48.7	1 above	47	- 1	0	- 6	2906	-238	358	- 77	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	59	36	54.2	44.3	49.1	4 above	50	+16	0	- 9	2262	-150	487	+ 21
	7. ENGLAND, N.W.	59	38	54.9	46.2	50.4	4 above	59	+20	0	- 6	2494	-159	421	- 16
	8. ENGLAND, S.W.	62	33	56.6	45.4	50.8	3 above	62	+14	0	- 5	2853	- 91	324	- 10
	9. IRELAND, NORTH	59	35	54.8	45.5	50.1	4 above	57	+20	0	- 8	2365	-184	339	- 57
	10. IRELAND, SOUTH	64	39	57.3	47.0	52.0	4 above	70	+25	0	- 6	2870	- 28	240	- 50
	- CHANNEL ISLANDS	60	40	57.4	48.6	52.9	1 above	76	+ 8	0	- 1	3403	- 30	99	- 25

DISTRICTS. (See p. 260.)		Rainfall.								Bright Sunshine.							
		For the Week.				From December 29th, 1901.				For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	3 less	215	- 24	38.3	- 2.2	12	- 1	20	- 2	1037	- 30	26	- 1	
	1. SCOTLAND, EAST	4	2	6 less	180	+17	20.6	- 5.5	13	- 3	20	- 5	1066	-155	27	- 4	
	2. ENGLAND, N.E.	3	2	5 less	157	+ 7	18.0	- 3.1	14	- 1	21	- 2	1146	- 58	29	- 2	
	3. ENGLAND, EAST	3	1	5 less	150	- 1	19.0	- 1.9	18	- 4	27	- 5	1460	- 72	35	- 2	
	4. MIDLAND COUNTIES	3	1	6 less	151	+ 6	20.3	- 3.0	13	- 3	19	- 5	1211	- 51	32	- 1	
5. ENGLAND, SOUTH	3	1	6 less	147	+ 6	20.8	- 2.4	15	- 8	22	-11	1477	-108	36	- 3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	10	3 less	189	+19	40.1	- 0.9	12	- 4	18	- 6	1183	- 87	30	- 2	
	7. ENGLAND, N.W.	5	3	6 less	177	+18	23.5	- 5.3	14	- 3	21	- 4	1360	+ 82	35	+ 2	
	8. ENGLAND, S.W.	4	2	8 less	160	- 3	25.4	- 7.4	16	- 4	24	- 6	1439	-107	37	- 3	
	9. IRELAND, NORTH	6	2	7 less	208	+20	29.0	+ 0.5	8	- 9	12	-14	1145	- 35	29	- 1	
	10. IRELAND, SOUTH	4	2	7 less	170	- 2	26.8	- 6.4	13	- 7	20	-11	1311	- 37	33	- 1	
	- CHANNEL ISLANDS	5	2	7 less	171	+ 7	22.5	- 3.9	13	- 6	18	- 9	1616	-178	42	- 5	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was mild, with a good deal of cloud generally, and with frequent rain in all the western and northern districts. Over the eastern, central, and southern counties of England, however, the latter half of the time was fair and drier.

Temperature was above the mean, the excess ranging from 1° in England S. and the Channel Islands, and 2° in England E., to 4° in almost all other parts of the Kingdom. The highest of the maxima, which occurred on Tuesday in Ireland, on Wednesday or Friday at most of the Scotch stations, and on irregular dates over England, varied from 64° in Ireland S., 63° in England E., and 62° in England S.W. and Scotland N., to 59° in the Midland Counties and some north-western districts. The lowest of the minima were registered at most stations towards the close of the week. They were as low as 28° in England S., and 31° in Scotland E., but elsewhere they varied between 33° and 39° or 40°, the last two values being in Ireland S. and the Channel Islands.

Rainfall was considerably less than the mean in all districts, although some amount was measured almost daily in the west and north. Over eastern, central, and southern England the total fall was no more than a tenth of an inch.

Bright Sunshine was deficient—especially in Ireland and the south of England. The percentage of the possible duration ranged from 27 in England E., and 24 in England S.W., to 19 in the Midland Counties, 18 in the Channel Islands, and 12 in Ireland N.

Barometer and Wind.—Barometric pressure during this period was very unstable, anti-cyclonic areas sometimes existing to the westward or south-westward of our Islands, and at other times to the south-eastward, while cyclonic systems moved in a general westerly direction over the northern parts of our area, their secondaries affecting our own north-western and northern coasts. The only disturbances to pass over our southern districts were some shallow secondaries during the earlier days of the week. The winds over our Islands consequently varied between South or South-West and West or North-West. They were generally very light or moderate in the south, but over our more northern districts they frequently increased to a strong breeze or moderate gale; at the commencement, and again towards the end of the week, they rose to the force of a fresh to whole gale.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
O. SCOTLAND, N.	Sumburgh Head	53	38	49.4	42.0	45.6	+ 1.4	25	0	6	0.77	- 0.21	*	*	*	*
	Stornoway	55	35	52.7	41.3	46.8	+ 2.9	37	2	7	0.69	- 0.51	12.0	- 3.2	19	- 5
	Wick	62	34	53.9	39.7	46.6	+ 2.4	42	6	6	0.80	- 0.37	*	*	*	*
	Laing	62	35	54.9	40.7	47.6	+ 5.8	45	4	6	0.61	- 0.24	*	*	*	*
	Glencarron	57	36	52.4	42.0	47.1	+ 4.1	36	0	6	2.54	+ 0.44	*	*	*	*
	Fort Augustus	57	33	54.4	42.7	48.4	+ 4.1	45	0	5	0.31	- 0.68	15.8	+ 6.0	25	+ 10
1. SCOTLAND, E.	Fort William	57	37	54.2	45.2	49.6	+ 4.3	53	0	6	1.05	- 0.72	7.7	- 4.9	12	- 8
	Nairn	60	35	55.4	41.0	48.0	+ 4.4	46	3	6	0.18	- 0.35	*	*	*	*
	Aberdeen	61	38	54.7	42.6	48.5	+ 3.9	46	0	3	0.12	- 0.58	19.3	+ 1.3	30	+ 2
	Braemar	56	34	52.3	40.8	46.4	+ 5.6	38	3	5	0.25	- 0.63	*	*	*	*
	Ochertyre	59	31	55.9	40.4	47.9	+ 4.1	48	4	4	0.07	- 0.91	*	*	*	*
	Leith	60	40	56.6	44.0	50.1	+ 4.4	57	0	3	0.06	- 0.41	*	*	*	*
2. ENGLAND, N.E.	Marchmont	55	35	52.0	40.6	46.6	+ 3.3	38	4	5	0.24	- 0.55	9.0	- 7.1	14	- 11
	Alnwick Castle	59	38	55.2	43.6	49.2	+ 4.4	50	0	5	0.16	- 0.59	*	*	*	*
	Durham	58	37	54.8	42.5	48.5	+ 4.0	46	0	3	0.17	- 0.50	16.4	- 0.2	25	0
	Shields	59	39	55.7	45.4	50.4	+ 4.7	59	0	3	0.23	- 0.35	*	*	*	*
	Scarborough	61	38	55.7	44.1	49.7	+ 3.4	54	0	5	0.25	- 0.45	15.2	-	23	-
	Spurn Head	57	42	54.6	46.0	50.2	+ 3.2	57	0	2	0.21	- 0.32	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	57	36	54.8	44.0	49.2	+ 4.4	50	0	1	0.03	- 0.47	13.6	-	20	-
	Hillington	59	36	55.4	42.2	48.6	+ 3.0	46	0	3	0.26	- 0.36	18.2	+ 0.3	27	0
	Yarmouth	59	37	53.7	42.3	47.8	+ 0.9	41	0	2	0.10	- 0.55	*	*	*	*
	Geldeston	61	33	56.4	41.2	48.6	+ 1.8	50	2	3	0.07	- 0.53	19.4	- 1.3	29	- 2
	Cambridge	63	37	57.3	42.8	49.8	+ 3.7	55	0	2	0.02	- 0.47	18.7	- 1.3	28	- 1
	Felixstowe	56	39	52.6	44.4	48.4	+ 1.5	45	0	2	0.08	-	20.8	-	31	-
4. MIDLAND COUNTIES	Rothamsted	58	35	54.2	40.8	47.3	+ 1.9	42	3	4	0.05	- 0.60	8.6	- 11.6	13	- 17
	Harrogate	57	37	54.0	44.8	49.3	+ 4.9	51	0	2	0.18	- 0.53	14.0	-	21	-
	Bawtry (Hesley Hall)	58	36	55.3	43.6	49.3	+ 4.5	51	0	1	0.02	- 0.54	*	*	*	*
	Loughborough	59	38	55.4	43.7	49.4	+ 3.8	52	0	3	0.05	- 0.61	*	*	*	*
	Colly Weston (Stamford)	59	36	55.0	43.3	49.0	+ 3.4	49	0	1	0.02	- 0.57	*	*	*	*
	Cheadle	57	40	52.6	44.4	48.4	+ 4.2	45	0	4	0.14	- 0.60	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	58	41	53.8	45.7	49.6	+ 4.0	53	0	3	0.08	- 0.54	6.2	-	9	-
	Churchstoke	57	39	55.2	42.9	48.9	+ 4.1	48	6	2	0.05	- 0.72	17.3	+ 0.3	26	0
	Hereford	59	33	55.8	42.8	49.1	+ 3.0	50	0	2	0.06	- 0.55	*	*	*	*
	Cirencester	58	35	54.5	41.6	47.9	+ 3.1	43	1	4	0.20	- 0.50	14.6	- 4.1	22	- 6
5. ENGLAND, S.	Oxford	59	38	55.1	43.0	48.9	+ 3.4	48	0	3	0.08	- 0.46	13.0	- 5.8	19	- 9
	London	59	35	55.7	41.6	48.4	+ 1.2	46	1	4	0.08	- 0.49	6.14	- 7.64	94	- 114
	Swarraton (Alresford)	56	28	54.1	38.2	45.9	+ 0.5	43	11	4	0.17	- 0.58	*	*	*	*
	Dungeness	57	34	54.4	38.9	46.4	- 2.2	44	9	1	0.01	- 0.66	15.3	-	23	-
	Hastings (St. Leonards)	58	41	54.8	44.1	49.3	+ 0.8	51	0	1	0.03	- 0.79	12.4	- 10.2	18	- 15
	Southampton	61	36	57.5	43.6	50.3	+ 2.2	58	0	2	0.10	- 0.65	13.5	- 7.5	20	- 11
6. SCOTLAND, W.	Portland Bill	58	42	56.1	47.9	51.9	+ 2.9	69	0	2	0.11	-	*	*	*	*
	Shaftesbury	56	38	53.4	44.0	48.6	+ 3.3	46	0	5	0.39	- 0.44	*	*	*	*
	Laudale (Loch Sunart)	59	36	55.0	44.0	49.3	+ 3.6	51	0	7	1.92	+ 0.16	*	*	*	*
	Glasgow	56	39	53.9	44.1	48.9	+ 4.5	48	0	5	0.17	- 0.69	10.5	- 1.2	16	- 1
7. ENGLAND, N.W.	Cally	56	37	53.1	42.3	47.5	+ 2.6	39	0	6	1.19	+ 0.05	*	*	*	*
	Douglas (Isle of Man)	57	43	54.8	46.9	50.7	+ 4.1	61	0	7	0.52	- 0.52	12.8	- 6.6	19	- 10
	Newton Reigny	56	38	54.3	42.0	48.0	+ 4.6	42	0	4	0.27	-	12.7	-	20	-
	Stonyhurst	54	40	52.6	44.2	48.3	+ 3.2	44	0	6	0.51	- 0.59	10.7	- 4.8	16	- 8
	Blackpool	57	43	55.1	47.1	51.0	+ 4.5	63	0	7	0.27	- 0.61	12.4	- 3.2	19	- 6
	Manchester (Prestwich)	56	39	53.4	43.5	48.3	+ 2.9	44	0	6	0.28	- 0.58	7.0	-	11	-
8. ENGLAND, S.W.	Liverpool Obsy. (Bidston)	58	46	54.7	47.6	51.1	+ 4.3	64	0	5	0.11	- 0.62	18.3	-	27	-
	Chester	59	45	58.1	47.4	52.6	+ 5.3	74	0	3	0.15	-	*	*	*	*
	Llandudno	59	47	56.8	49.3	52.9	+ 4.5	76	0	4	0.14	- 0.71	16.0	- 0.2	24	0
	Holyhead	56	46	54.4	48.4	51.3	+ 2.6	65	0	4	0.54	- 0.41	*	*	*	*
	Llandoverly	57	36	55.7	44.4	49.9	+ 4.4	55	0	5	0.23	- 1.00	*	*	*	*
	Pembroke	57	44	56.6	49.4	52.9	+ 3.5	76	0	4	0.19	- 0.74	21.0	+ 1.6	31	+ 2
9. IRELAND, N.	Clifton	58	39	56.0	46.9	51.3	+ 4.5	65	0	3	0.05	- 0.78	*	*	*	*
	Bath	60	34	56.9	42.7	49.6	+ 2.4	53	0	2	0.17	- 0.52	15.3	-	23	-
	Arlington (N. Devon)	57	39	54.7	44.0	49.2	+ 2.5	50	0	4	0.52	- 0.86	*	*	*	*
	Cullompton	61	33	57.6	41.4	49.3	+ 3.0	54	2	4	0.14	- 0.72	13.0	- 4.9	19	- 7
	Falmouth	59	46	56.3	49.2	52.7	+ 2.8	75	0	6	0.22	- 1.00	15.6	- 6.7	23	- 9
	Plymouth	62	40	58.7	45.2	51.8	+ 2.5	69	0	4	0.26	- 0.58	15.9	- 4.2	23	- 6
10. IRELAND, S.	Malin Head	57	44	53.4	47.9	50.6	+ 3.4	60	0	6	0.20	- 0.50	*	*	*	*
	Edenfel (Omagh)	57	35	53.3	43.6	48.3	+ 4.3	44	0	5	0.19	- 0.66	*	*	*	*
	Blacksod Point	58	42	55.7	49.0	52.3	+ 4.3	72	0	6	0.24	- 0.96	*	*	*	*
	Markree Castle	59	39	55.9	45.4	50.5	+ 5.2	60	0	7	0.30	- 0.64	7.2	- 9.9	11	- 14
	Armagh	52	38	55.1	43.4	49.1	+ 4.0	50	0	6	0.14	- 0.59	8.8	- 8.6	18	- 12
	Donaghadee	57	38	55.6	43.7	49.5	+ 2.9	53	0	5	0.12	- 0.61	*	*	*	*
CHANNEL ISLANDS	Dublin	61	43	57.2	46.9	51.9	+ 4.4	69	0	4	0.07	- 0.56	17.3	- 4.1	26	- 6
	Parsonstown	60	39	56.7	44.4	50.4	+ 4.9	59	0	5	0.15	- 0.52	10.7	- 8.6	16	- 13
	Kilkenny	58	40	56.3	44.1	50.0	+ 3.5	56	0	2	0.09	- 0.61	*	*	*	*
	Roche's Point	64	46	57.7	48.4	52.9	+ 3.6	76	0	3	0.08	- 0.92	*	*	*	*
	Valencia	60	42	57.1	49.9	53.4	+ 3.8	80	0	5	0.31	- 0.99	11.3	- 8.6	17	- 13
	Killarney	63	42	58.7	48.2	53.3	+ 5.2	79	0	2	0.51	- 0.85	*	*	*	*
CHANNEL ISLANDS	Foynes	-	-	-	-	-	-	-	-	-	-	-	*	*	*	*
	Scilly (St. Mary's)	59	48	56.9	50.4	53.6	+ 1.8	81	0	5	0.33	- 0.52	7.1	-	10	-
CHANNEL ISLANDS	Jersey	60	40	57.9	46.7	52.1	+ 0.7	71	0	5	0.12	- 0.86	18.2	- 6.1	26	- 8

Stations Marked $\mathcal{R}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Records are in use.

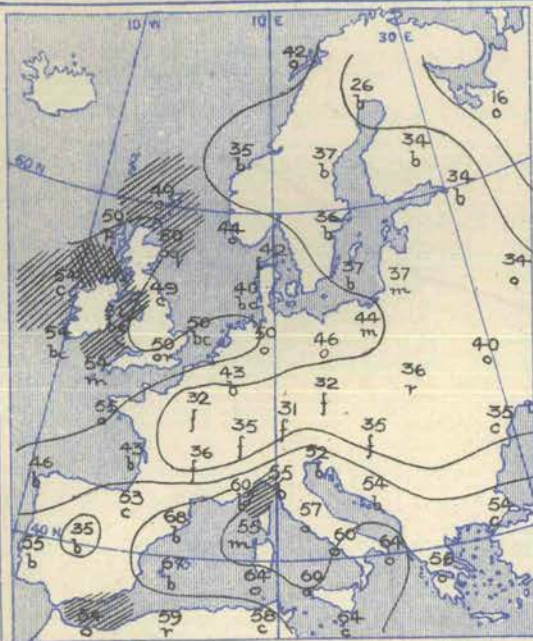
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 26th October.

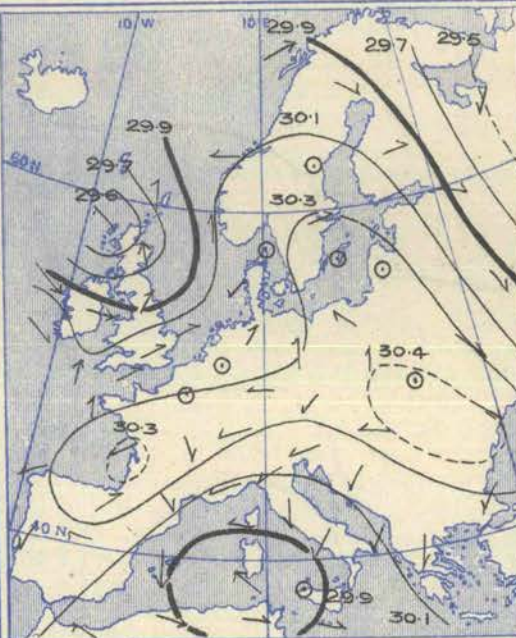
Temperature and Weather.

8 a.m.

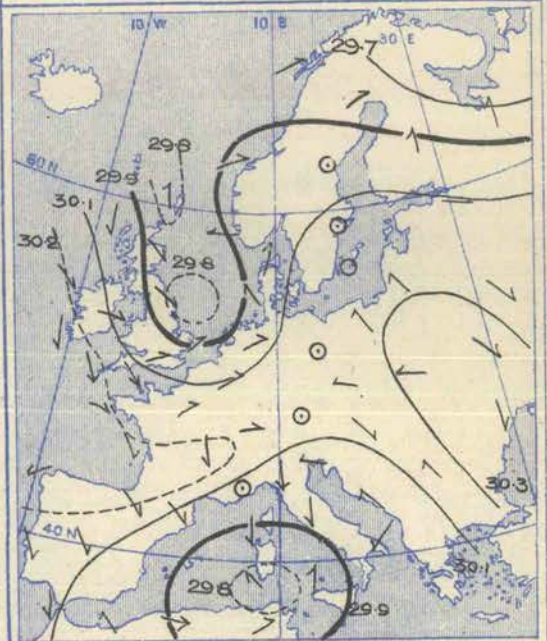


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but fine in Sweden, Finland, Spain, and France. Rainy at Algiers, at several of our own stations, and also at Lemberg, and foggy in the inland parts of France and Germany. Rain experienced during day in most parts of the United Kingdom, the Netherlands, and in various other northern regions, as well as in Italy and Algeria. Amounts heavy in the last-named country.

Temperature risen quickly in Scotland. Readings at 8 a.m. highest, 68° at Barcelona, 67° at Palma, and 64° at Malta and Cagliari, 60° at Naples and Nice. Lowest, (1) 16° at Archangel, and not much above 32° over the northern half of Russia generally; (2) 30° to 35° over the inland districts of France and Germany; (3) 35° at Madrid. Maxima during day less than 60° over the most northern countries, nearly 60° in some parts of our Islands and the west of France, 68° at Nice and Lisbon, 75° at Barcelona and Croisette, and 84° at Oran.

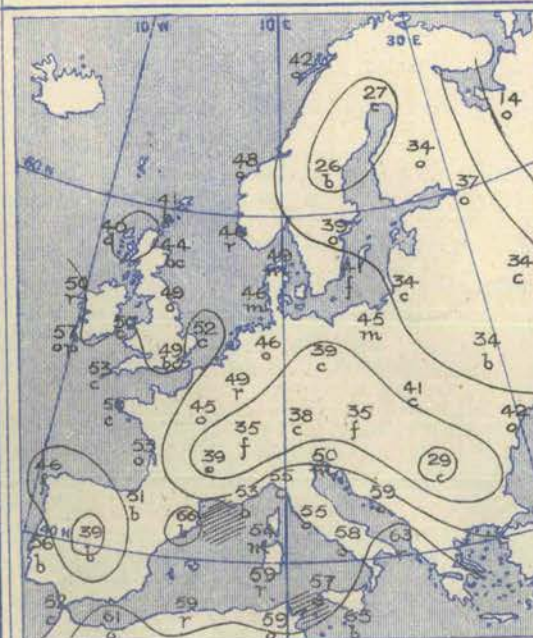
Wind in morning strong to a gale from the Westward over Ireland and Wales, and moderate or fresh from the Southward over England, Scotland, and the North Sea. Light and mainly North-Westerly over Russia and the eastern countries, and fresh or strong in a cyclonic circulation over the western portion of the Mediterranean. Wind veering to West or North-West over our Islands later, backing to South-East in Denmark, and to East at Skudesnaes. Gale subsiding in Ireland. Very little change in the Continental regions.

Barometer fallen rapidly in Scotland and briskly over Ireland and England. Readings at 8 a.m. ranging from 30.4 ins. in an anticyclone stretching from central Europe to the North Sea, to 29.9 ins. and less in a large depression over the Mediterranean, to 29.6 ins. at Archangel, and to less than 29.6 ins. in a deep cyclonic system over the west of Scotland. Scotch disturbance becoming less deep during day and apparently moving south-eastwards. No other important change.

Monday, 27th October.

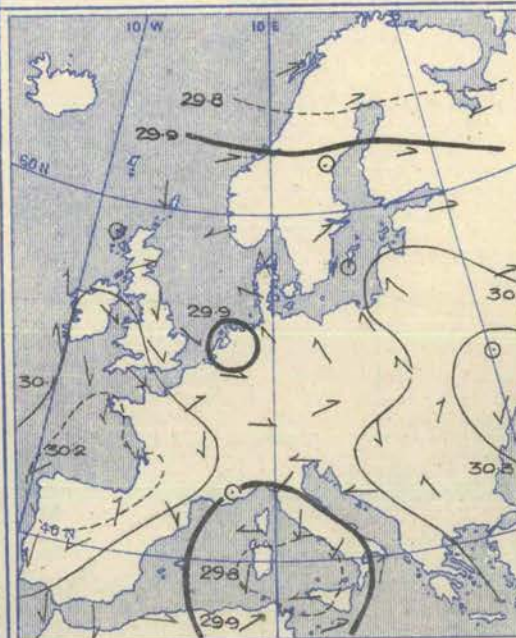
Temperature and Weather.

8 a.m.

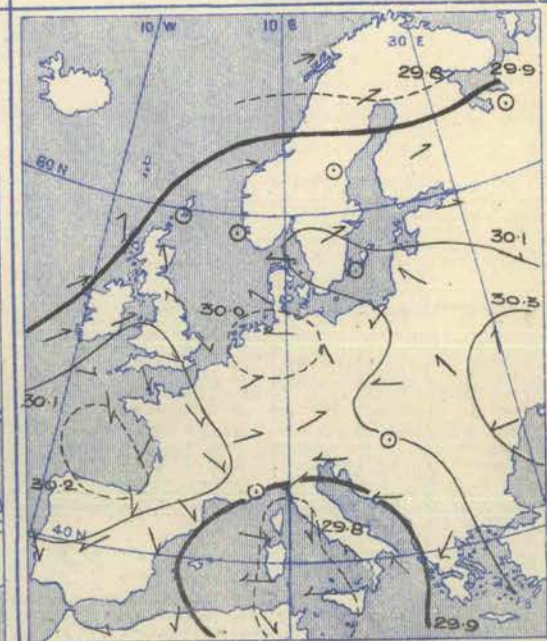


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in a few parts of Great Britain, and also over the Iberian Peninsula, cloudy or dull in almost all other localities, with rain in the west of Ireland, at Skudesnaes, Copenhagen, and in many parts of the Mediterranean. As much as 1.3 ins. of rain falling at Brindisi during ensuing 24 hours, and nearly as much at La Calle and Pesaro. Light rain falling at most of our own stations and in various parts of France and Germany, and heavier amounts on the west coast of Norway.

Temperature fallen quickly in Scotland, risen over France and central Europe. Readings at 8 a.m. ranging from 60° at Barcelona, and 63° at Malta and Brindisi, to about 53° in the English Channel, to less than 40° in the north of Scotland, central Europe, and Russia, to 26° at Hernösand, and to 14° at Archangel. Rising during day to 79° at Trieste and Sanguinaire, to about 70° at several other southern stations. Not touching 60° over our Islands and central Europe.

Wind in morning showing two cyclonic circulations—one around the Netherlands and the other around the Tyrrhenian Sea. Light from the Southward in Ireland, and light and anticyclonic both over the Bay of Biscay and the south of Russia. Chiefly Westerly or South-Westerly over Scandinavia. No general change during day, but wind increasing to a strong breeze from the Southward over Ireland, and to a moderate South-Westerly gale at Bodø.

Barometer risen on our north-western and northern coasts, and also over Russia, fallen elsewhere. 8 a.m. readings highest, 30.3 ins. and upwards in an anticyclone over the south of Russia, and above 30.1 ins. to 30.2 ins. in another system extending from Spain to the north of Ireland. Lowest, less than 29.8 ins. over Lapland and in a shallow disturbance over the Tyrrhenian Sea, below 29.9 ins. in another system over the Netherlands. Barometer falling briskly on our western and north-western coasts during day, but little change occurring elsewhere.

Tuesday, 28th October.

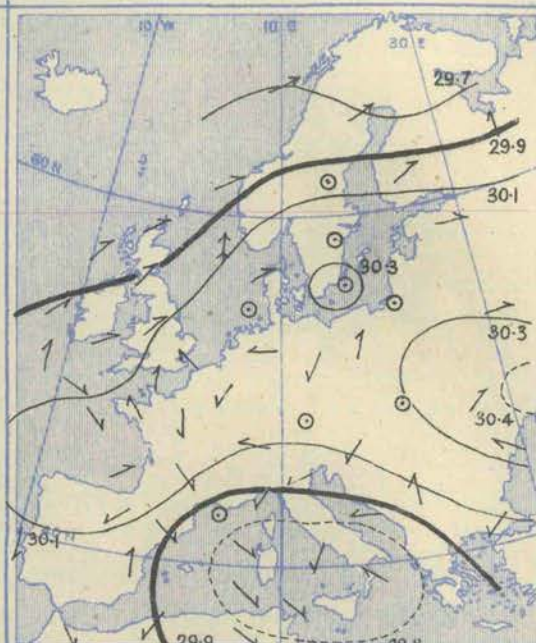
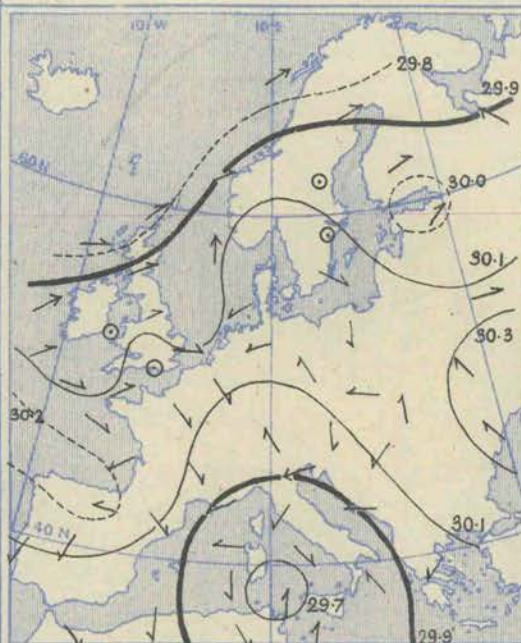
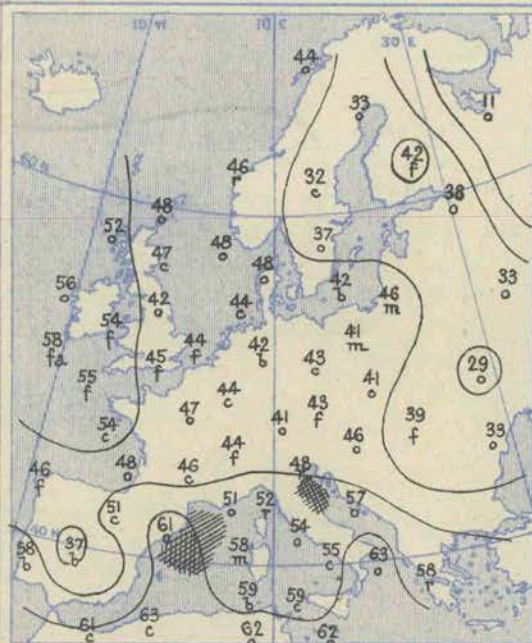
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull very generally, but fine at some Spanish and Portuguese stations. Foggy over central Europe and at Corunna, and fogs and drizzle at some of our own southern stations. Rainy in the west of Norway, at Athens, Trieste, and over northern Italy. Rain subsequently in most British and Irish localities, in the north-west of France, and heavy falls in the north of Norway, and also at Brindisi and Pesaro—as much as 1.3 ins. at Bodø, and 1.1 ins. at Brindisi.

Temperature risen in most countries, but fallen over the south of Russia. Readings at 8 a.m. highest, 63° at Algiers and Brindisi, and between 55° and 60° at most southern stations situated on the coast, above 50° in our own western and northern districts. Lowest, 11° at Archangel, 25° at Kharkov, 32° at Hérnösand, 34° at Cracow, 36° at Münster, and 37° at Madrid. Rising later to 60° or above in several parts of our Islands and France, 73° at Lisbon and at several Algerian stations, and to 75° at Sanguinaire. Remaining below 50° in most parts of Germany.

Wind at 8 a.m. South-Westerly or Southerly over the British Isles and the major portion of northern Europe, and blowing strongly on the coast of Norway. Light and anticyclonic over the Bay of Biscay, and also over southern Russia, and cyclonic, moderate to fresh or strong, over Italy and its neighbourhood. Very little change in direction during day, but Southerly wind increasing to a fresh gale in the south-west of Norway.

Barometer at 8 a.m. highest, 30.4 ins. and more in the south of Russia, about 30.2 ins. over the Bay of Biscay. Lowest, less than 29.7 ins. in a cyclonic system over the Tyrrhenian Sea, below 29.8 ins. in a very large disturbance to the northward of Scotland and over Lapland, below 30.0 ins. over the western half of the Gulf of Finland. Anticyclone in Russia spreading east-north-eastwards later, and depression in south beginning to fill up. Barometer undergoing little change over our Islands.

Wednesday, 29th October.

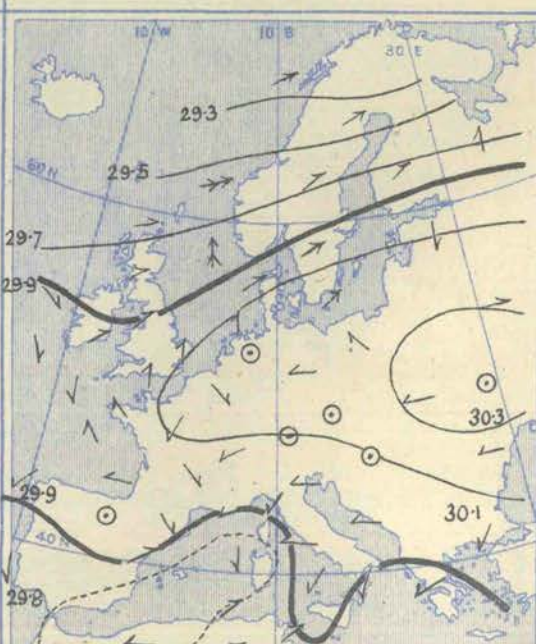
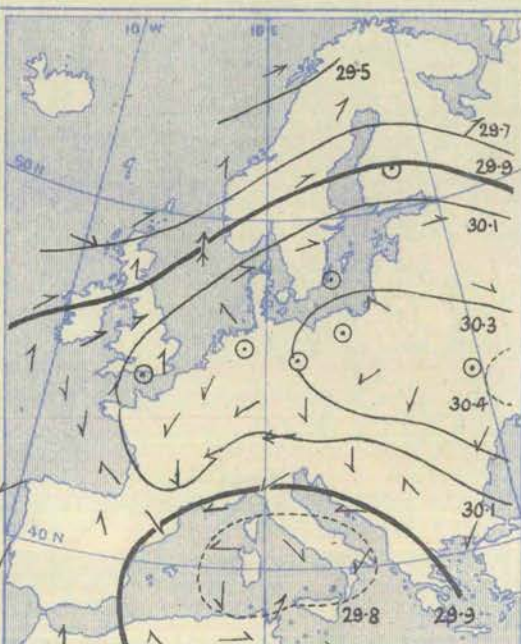
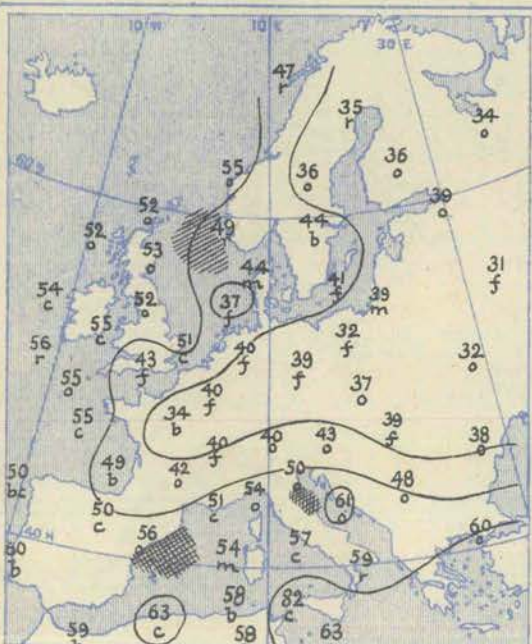
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or very dull in almost all places. Misty and damp over our Islands, with slight rain in the south-west and south; rainy in parts of Scandinavia, at Bilbao, and at some Italian stations, and foggy over the Netherlands and North Germany. Heavy rain falling during day in Norway (1.02 ins. at Bodø), and also over the south of Italy (0.95 in. at Naples) and smaller amounts over the United Kingdom.

Temperature risen in the northern, fallen in the southern regions. Readings at 8 a.m. highest, 63° at Malta and Algiers, above 50° over the southern countries generally, and most parts of our Islands. Lowest, 24° at Kharkov, 31° at Moscow and Breslau, 34° at Paris, and 35° at Haparanda. Maxima registered during day a little above 70° in Algeria and at Constantinople, and rather below that value over the south of Italy, 60° at Leith and Parsonstown, below 50° in many parts of central Europe.

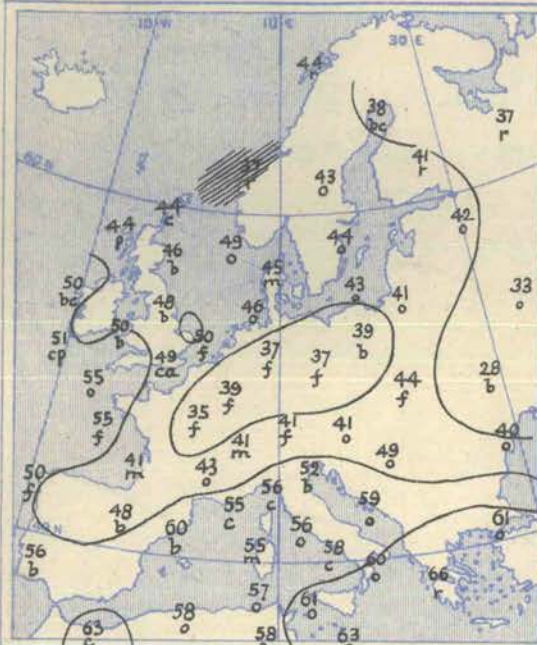
Wind in morning Southerly, South-Westerly, or Westerly over all the northern and north-western countries; moderate or light as a whole, but a Southerly gale blowing at Skudesnaes. Mainly Easterly or North-Easterly over the southern and central regions, but South-Westerly or Westerly at Palermo and Malta. South-Westerly wind increasing to a strong breeze or gale at most Scandinavian and Finnish stations later, and wind veering to north-west in the west of Ireland.

Barometer at 8 a.m. ranging from 30.5 ins. to 30.3 ins. in an anticyclone stretching from the south of Russia to the Baltic, to less than 29.8 ins. in a depression over Italy, and to less than 29.5 ins. near Bodø. Barometer falling in Ireland and Scotland. Anticyclone receding eastwards later, and barometer falling decidedly in extreme north. Italian disturbance apparently travelling eastwards, and a "V"-shaped system moving eastwards across Ireland.

Thursday, 30th October.

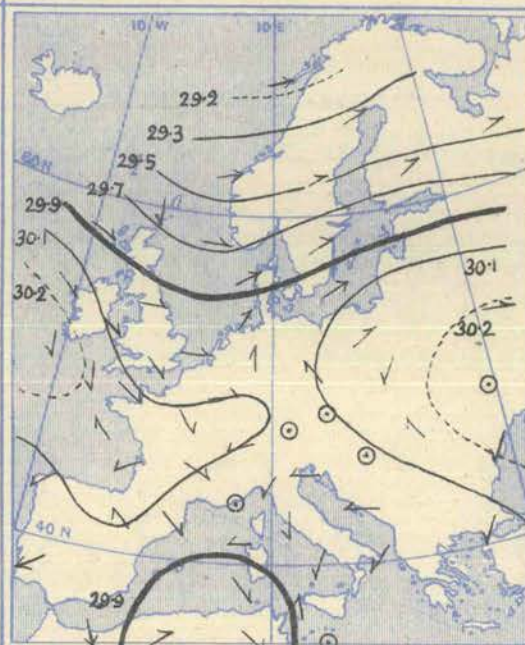
Temperature and Weather.

8 a.m.

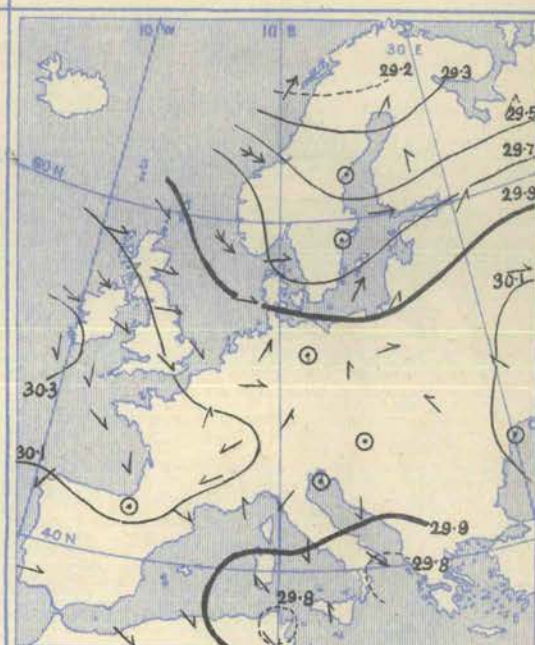


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine or fair in many parts of our Islands and the Spanish Peninsula. Cloudy or dull elsewhere, with fog over Germany, at our own south-eastern stations, Brest, and Corunna, and rain in the extreme north of Scandinavia and at Archangel, as well as in London and at Athens. Heavy rain experienced later over Algeria, Tunis, and Italy, and as much as 2.25 ins. at Malta. Slight amounts in most parts of north-western Europe. Temperature fallen in Ireland and Scotland, changed irregularly elsewhere. Readings at 8 a.m. ranging from 66° at Athens, 63° at Malta, and 62° at Oporto, to 55° at Portland Bill, 44° in the north of Scotland and at Bodø, 35° at Paris, 33° at Moscow, and to 28° at Kief. Maxima during day less than 60° over England, central Europe, and most parts of France, but 70° at Barcelona, Lisbon, and Malta, and 73° at Tunis.

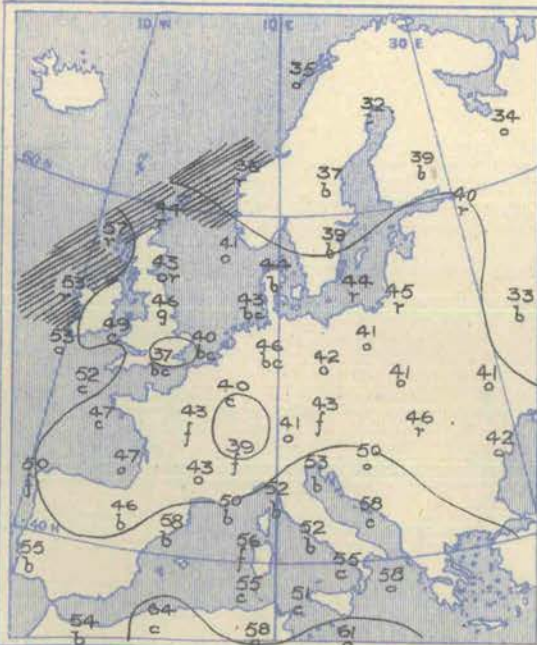
Wind in morning light to fresh from West or North-West over the United Kingdom, and fresh or strong from between South-West and South over Scandinavia and northern Europe generally. Light and anticyclonic in most other regions, but cyclonic over the western portion of the Mediterranean. Scarcely any change during day as a whole, but wind veering to North-West and increasing to a gale on the Norwegian coast.

Barometer in morning highest, 30.2 ins. to 30.1 ins. in two anticyclones stretching respectively from west to east and from east to west, and almost meeting over western Germany. Lowest, 29.2 ins. and less in Finmark, and below 29.0 ins. over Algeria and the neighbouring portion of the Mediterranean. Western anticyclone extending north-eastwards during day, and that in the east receding slowly eastwards. No other important change.

Friday, 31st October.

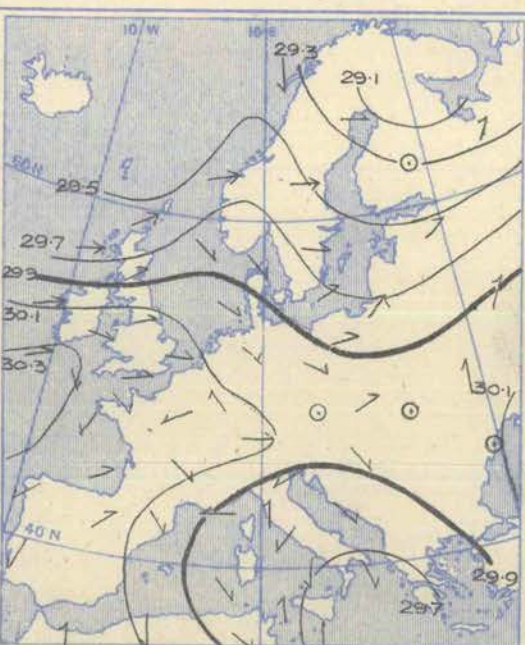
Temperature and Weather.

8 a.m.

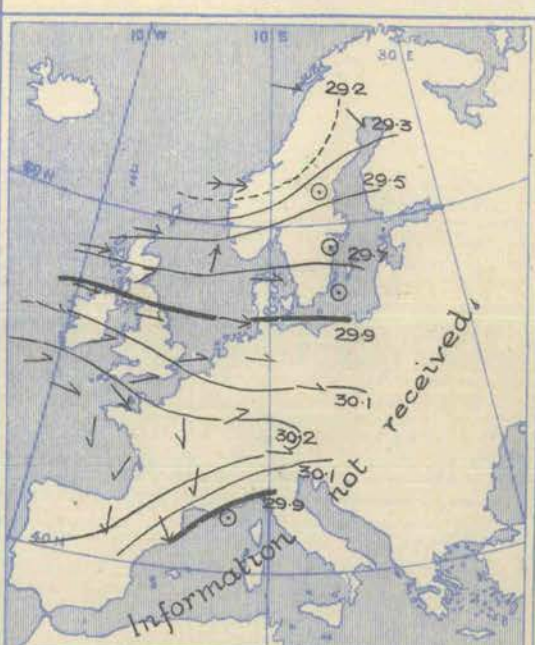


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy over the north of Ireland, in Scotland, and many parts of Scandinavia and Finland; very cloudy in most other regions, but fine and bright in Denmark, the Netherlands, the Riviera, northern Italy, and at some Spanish stations. Fog prevailing at Paris, Vienna, and Corunna. Heavy rain subsequently at Christiansund, and slight amounts over the west and north of our Islands, and in parts of Germany and the Netherlands.

Temperature risen over Ireland, Scotland, and the greater part of Continental Europe, but fallen over England and the extreme northern and southern countries. Readings at 8 a.m. highest, 64° at Algiers, 61° at Malta, and between 58° and 55° at several other southern stations, and 53° in the west of Ireland. Lowest, 31° at Kharkov, 32° at Haparanda, 33° at Moscow, 35° at Karlstadt, 35° at Bath, 37° in London, 36° at Limoges. Rising later to a degree or two above 60° at some Scotch stations, to 64° at Biarritz, 65° at Perpignan, and to 66° at Nice. Remaining below 50° at Lyons and Belfort and in some parts of central Europe.

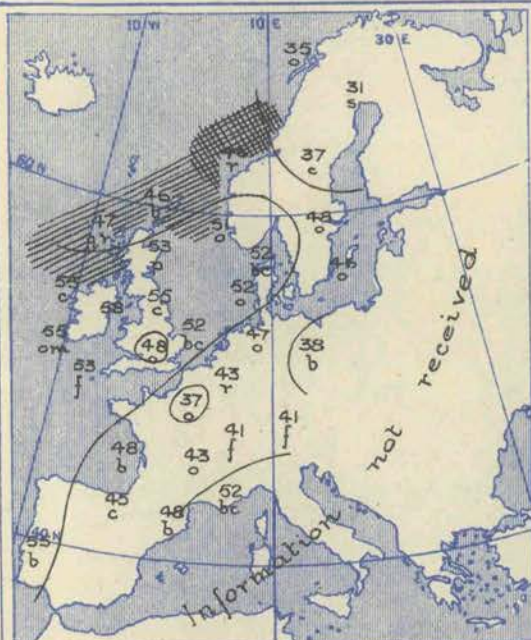
Wind in morning between South-West and West over the northern half of our area, and fresh or strong in force at many of our own northern stations and in Scandinavia. Chiefly Northerly and light over Italy and the adjacent parts of the Mediterranean, and North-Westerly in Tunis. Light and anticyclonic over France and Spain. Not much change in direction over our Islands and north-western Europe later, but wind increasing to a severe Westerly gale on the west coast of Norway.

Barometer at 8 a.m. ranging from 30.3 ins. to 30.2 ins. in an anticyclone stretching from the Atlantic and embracing the south of Ireland, the greater part of England, the western half of France, to less than 29.7 ins. in a shallow depression between southern Italy and Greece, to less than 29.6 ins. in another system off the north of Scotland, and to below 29.2 ins. in a large disturbance over Lapland. Anticyclone extending eastwards to south Germany by evening, and Scotch disturbance moving on to the north-west of Norway.

Saturday, 1st November.

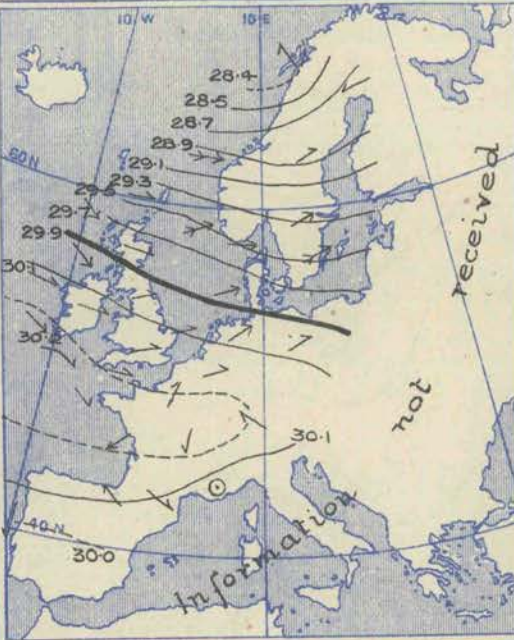
Temperature and Weather.

8 a.m.

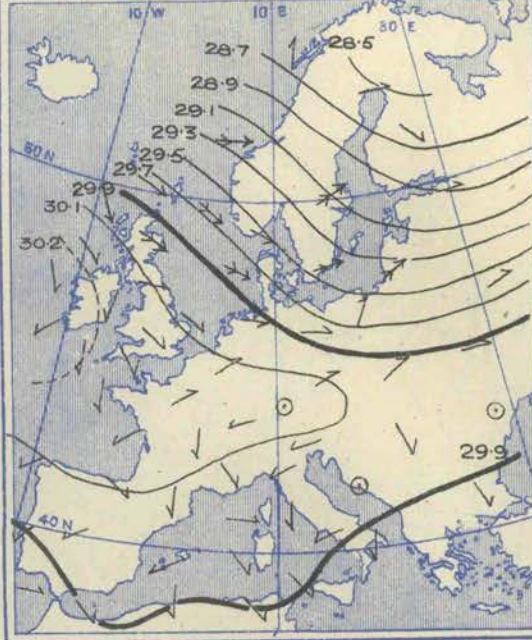


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in the Riviera and at a few of our own eastern and southern stations, cloudy or dull over western and north-western Europe as a whole, with rain in several places and fog in Germany. (No 8 a.m. reports to hand for the eastern half of Europe or Algeria.) Rain falling later over the west and north of our Islands, in several parts of Russia and Finland, Germany, and Spain, and considerable quantities at Christiansund and Constantinople.

Temperature risen over Scandinavia and the United Kingdom, fallen over France and Germany. Readings at 8 a.m. ranging from 55° at Lisbon, on our north-east coasts, on the west coast of Ireland and at Jersey, 37° at Frankfurt, 35° at Bodö, and 31° at Haparanda; 52° at Nice, and 45° at Biarritz. Rising later to nearly 60° at many of our own stations, to about 65° in the south of France, and to 70° or above on the Atlantic coasts of the Peninsula, and on various Mediterranean shores.

Wind at 8 a.m. light to fresh from West over Ireland and England; strong to a gale from West or North-West in Scotland, strong from the Westward in Denmark, drawing into South-West and blowing a severe gale over the southern half of Scandinavia, and moderate from East in Lapland. Light and anticyclonic over France. Gale extending to Denmark later, and continuing all day with but little change in direction over Scotland and Scandinavia, but wind veering towards North-West or North over Ireland and England.

Barometer in morning highest, above 30.2 ins., in an anticyclone stretching from the Atlantic and the Bay of Biscay, to Western Germany; lowest, 28.4 ins. and less in a large and deep disturbance near Bodö. Anticyclone extending northwards during day, and cyclonic system in north moving rather quickly eastwards. Gradients remaining very steep over Scandinavia, and increasing quickly over Russia.

GENERAL NOTES.

During the whole of this period a large anticyclonic band has, with various modifications in form and intensity, stretched eastwards from the Bay of Biscay or its neighbourhood right across the central parts of Europe to the south of Russia. To the northward of this band cyclonic disturbances, primary and secondary, travelled in a general easterly direction, while in the southward rather ill-defined disturbances were seen over Italy or the western half of the Mediterranean. Some of the northern systems were both large and deep, notably one whose centre lay near the Hebrides at the opening of the week, and another whose centre (where the barometer was about 28.3 ins.) lay near Bodö on Saturday. The winds over all the more northern countries consequently varied between South and West or North-West, and at times

blew freshly or very strongly. Gales were experienced on more than one occasion on our own north-western and northern coasts, but the wind was, as a rule, stronger over Scandinavia than elsewhere, the gale experienced in that region towards the end of the period being extremely severe. Over the southern countries and the Mediterranean, the general wind direction was Easterly or North-Easterly, drawing into North-West or West at times in Algeria and Tunis. A fresh or strong breeze was felt on some occasions over northern Italy and its vicinity, but, as a whole, the winds were light or moderate. Much rain fell on the west coast of Norway, and also on the various shores of the Mediterranean, while elsewhere the falls were less heavy and generally less frequent.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 260.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESS	11.6	- 2.6	19	- 4	WORKSOP	11.1	- 4.3	17	- 6	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	14.3	- 1.9	23	- 3	THURCASTON	14.2	- 2.3	21	- 3	SOUTHPORT	15.6	—	24	—
EDINBURGH	10.7	- 4.2	17	- 6	MARGATE	14.1	- 5.9	21	- 9	RHYL	—	—	—	—
MORPETH	11.3	—	27	—	BROADSTAIRS	18.4	—	27	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	11.8	—	18	—	EASTBOURNE	13.9	- 7.3	20	- 13	ABERDOVEY	20.9†	—	31†	—
YORK	12.5	- 2.3	19	- 3	BRIGHTON	17.0	- 5.7	25	- 8	TENBY	20.5	+ 0.6	31	+ 1
CROMER	23.5	—	35	—	WORTHING	18.4	—	27	—	NEWQUAY	9.6	- 12.7	14	- 18
LOWESTOFT	19.9	—	30	—	BOGNOR	18.0†	—	27†	—	TORQUAY	17.3	- 3.0	25	- 4
DUNMOW	14.3	—	22	—	WATERGATE	14.6	—	22	—	GUERNSEY	14.6†	- 6.5	21†	- 9
HOLLESLEY BAY	19.9	—	28	—	WESTBOURNE	12.6†	- 8.4	19†	- 12					
SHEFFIELD	13.7	—	20	—	VENTNOR HOSPITAL	15.9	- 6.6	23	- 10					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, NOVEMBER 8TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 266.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	32	51.8	42.0	46.9	4 above	Day-deg. 34	Day-deg. +10	Day-deg. 0	Day-deg. -13	Day-deg. 1776	Day-deg. -169	Day-deg. 682	Day-deg. + 46
	1. SCOTLAND, EAST	61	30	52.3	40.8	46.5	4 above	37	+13	3	-14	1959	-334	758	+ 61
	2. ENGLAND, N.E.	59	30	53.3	42.0	47.7	3 above	40	+10	0	-11	2373*	-141	522	- 29
	3. ENGLAND, EAST	62	30	53.9	42.8	48.4	3 above	45	+11	0	-12	2791	-114	519	- 86
	4. MIDLAND COUNTIES	59	30	53.0	40.8	47.0	3 above	40	+ 8	3	-11	2650	-192	526	-102
5. ENGLAND, SOUTH	60	35	55.7	46.1	50.9	5 above	62	+19	0	- 7	2968	-219	358	- 84	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	30	52.9	42.3	47.3	3 above	39	+10	0	-10	2301	-140	487	+ 11
	7. ENGLAND, N.W.	59	26	53.2	42.9	48.1	3 above	43	+ 9	0	- 7	2537	-150	421	- 23
	8. ENGLAND, S.W.	60	30	55.6	45.4	50.5	4 above	60	+17	0	- 5	2913	- 74	324	- 15
	9. IRELAND, NORTH	58	35	52.3	43.8	48.1	3 above	43	+10	0	- 9	2408	-174	339	- 66
	10. IRELAND, SOUTH	60	30	54.3	45.2	49.8	3 above	55	+14	0	- 7	2925	- 14	240	- 57
	— CHANNEL ISLANDS	63	46	57.8	50.4	54.1	3 above	85	+22	0	- 1	3488	- 8	99	- 26

DISTRICTS. (See p. 266.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 10	10ths of in. 2 less	220	+24	39.3	- 2.5	9	- 2	14	- 4	1045*	- 33	26	- 1
	1. SCOTLAND, EAST	5	9	1 more	185	+17	21.5	- 5.3	10	- 5	16	- 8	1076	-159	27	- 4
	2. ENGLAND, N.E.	3	5	2 less	160	+ 6	18.5	- 3.2	10	- 6	16	-10	1156	- 64	29	- 2
	3. ENGLAND, EAST	4	3	3 less	154	- 1	19.3	- 2.2	14	- 5	22	- 8	1474	- 77	35	- 2
	4. MIDLAND COUNTIES	4	7	1 more	155	+ 6	21.0	- 2.9	14	+ 2	22	+ 3	1225	- 49	32	- 1
5. ENGLAND, SOUTH	5	7	0 (average)	152	+ 7	21.5	- 2.4	17	- 1	27	- 1	1494	-109	36	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	15	3 more	195	+21	41.6	- 0.6	7	- 6	11	-10	1190	- 93	29	- 2
	7. ENGLAND, N.W.	5	6	2 less	182	+19	24.1	- 5.5	13	- 1	21	- 2	1373	+ 81	35	+ 2
	8. ENGLAND, S.W.	5	11	1 more	165	- 3	26.5	- 7.2	18	0	27	0	1457	-107	37	- 3
	9. IRELAND, NORTH	6	15	7 more	214	+22	30.5	+ 0.2	11	- 5	17	- 8	1156	- 40	29	- 1
	10. IRELAND, SOUTH	6	20	10 more	176	0	28.8	- 5.3	8	-11	12	-17	1319	- 48	33	- 1
	— CHANNEL ISLANDS	5	11	3 more	176	+ 8	23.6	- 3.7	20	- 2	30	- 3	1636	-180	41	- 5

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was again of an unsettled character generally. Rain fell daily in many western and northern localities, and by the middle of the week this condition had extended to the southern and eastern districts also, where the weather had been mainly fair and dry, although with occasional fogs and mists inland.

Temperature continued above the mean, the excess ranging from 3° in most parts of the Kingdom, to 4° in England S.W. and Scotland N. and E., to as much as 5° in England S. The highest of the maxima occurred at most stations on the 6th, but earlier in the week in most parts of Ireland. In the Channel Islands the thermometer recorded 63° in England E. 62°, Scotland E. and N. 61°, and 60° or 59° in nearly all other districts. The lowest of the minima, which were chiefly registered on Sunday, varied from 26° in England N.W., and 30° in many other districts, to 35° in England S. and Ireland N., and to 46° in the Channel Islands. During the latter part of the period the nights were very mild for the time of year.

Rainfall exceeded the mean over the Kingdom as a whole, but only just equalled it in England S., and was deficient in the extreme north of Scotland and the north and east of England. In Ireland the excess was large, and was mainly due to a heavy fall which was

experienced on Thursday, when between an inch and an inch and a half was collected in the gauge.

Bright Sunshine was again less than the mean generally, but slightly in excess in the Midland Counties and England S.W. The percentage of the possible duration ranged from 30 in the Channel Islands, and 27 in England S. and S.W., to 14 in Scotland N., 13 in Ireland S., and 11 in Scotland W.

Barometer and Wind.—At the commencement of the week a large anticyclone covered the whole of our Islands, but it very soon began to move east-south-eastwards to Central Germany, and subsequently travelled northwards to Scandinavia. As the high-pressure system receded from our Islands, cyclonic disturbances from the Atlantic, which at first only affected the most western portion of our Islands, spread more and more over us, and during the latter part of the period caused strong Southerly or South-Easterly winds or gales on many parts of our western and northern coasts, while on Saturday gales were felt in almost all localities—at first from the Southward in the south and west, and afterwards from the South-Eastward along the east coasts of Scotland.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.					Accumulated Heat for the Week (in Day-degrees).	Difference of Daily Average from Mean for the Week.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
		Highest observed.	Lowest observed.	Averages for the Week.												
				Of Highest each day.	Of Lowest each day.	For whole of each day.	Above 42°	Below 42°								
O. SCOTLAND, N.	Sumburgh Head	50	34	47.7	41.4	44.6	+ 1.3	21	2	6	0.75	- 0.21	*	*	*	*
	Stornoway	54	35	52.1	42.4	47.3	+ 3.9	37	0	7	1.95	+ 0.75	10.2	- 2.3	17	- 4
	Wick	54	34	50.7	41.9	46.3	+ 3.0	31	0	7	0.45	- 0.20	*	*	*	*
	Lairg	58	32	53.3	40.9	47.1	+ 6.1	40	3	3	0.86	+ 0.03	*	*	*	*
	Glencarron	61	35	55.8	44.9	47.4	+ 5.2	38	0	7	1.54	- 0.62	*	*	*	*
	Fort Augustus	59	33	53.0	41.7	47.4	+ 4.2	39	1	5	0.35	- 0.64	6.0	- 1.3	10	- 2
	Fort William	60	37	53.3	43.5	48.4	+ 3.9	45	0	5	1.05	- 0.72	4.9	- 4.8	8	- 8
1. SCOTLAND, E.	Nairn	59	36	53.7	41.1	47.4	+ 4.7	42	3	3	0.30	- 0.23	*	*	*	*
	Aberdeen	54	36	50.7	41.6	46.2	+ 2.6	31	1	6	1.27	+ 0.57	6.9	- 8.6	12	- 14
	Braemar	55	30	48.7	38.2	43.5	+ 3.6	26	11	7	1.39	+ 0.53	*	*	*	*
	Ochertyre	58	34	52.4	41.3	46.9	+ 4.2	37	2	7	1.44	+ 0.44	*	*	*	*
	Leith	61	34	55.7	42.7	49.2	+ 4.5	50	0	2	0.15	- 0.32	*	*	*	*
	Marchmont	58	31	52.4	39.6	46.0	+ 3.6	38	7	4	0.55	- 0.23	15.0	+ 0.7	25	+ 1
2. ENGLAND, N.E.	Alnwick Castle	57	30	53.7	41.4	47.6	+ 3.6	42	2	3	0.69	- 0.06	*	*	*	*
	Durham	56	30	51.7	39.7	45.7	+ 2.2	36	6	3	0.57	- 0.06	8.7	- 5.7	14	- 9
	Shields	58	35	54.0	41.9	48.0	+ 3.2	42	0	3	0.43	- 0.12	*	*	*	*
	Scarborough	55	36	53.0	42.1	47.6	+ 2.2	39	0	4	0.43	- 0.25	6.9	-	11	-
	Spurn Head	56	43	53.3	45.7	49.5	+ 3.7	53	0	3	0.23	- 0.27	*	*	*	*
	Fulbeck (Lincolnshire)	59	35	54.1	41.2	47.7	+ 4.1	43	2	4	0.33	- 0.15	21.2	-	34	-
3. ENGLAND, E.	Hillington	59	35	54.3	41.3	48.1	+ 3.6	44	1	4	0.26	- 0.35	15.3	- 0.4	24	- 1
	Yarmouth	56	40	52.7	45.6	49.2	+ 3.5	50	0	3	0.27	- 0.28	*	*	*	*
	Gedeston	59	32	54.0	42.3	48.2	+ 2.7	43	0	3	0.13	- 0.45	11.5	- 6.5	18	- 10
	Cambridge	62	30	55.2	39.5	47.4	+ 2.6	48	7	3	0.22	- 0.25	12.0	- 5.6	19	- 9
	Felixstowe	57	42	53.4	46.9	50.2	+ 4.9	57	0	4	0.28	-	18.0†	-	28†	-
	Rothamsted	58	31	53.5	40.6	47.1	+ 2.8	42	4	6	0.49	- 0.14	11.2	- 6.5	17	- 10
4. MIDLAND COUNTIES	Harrogate	54	34	51.3	40.3	45.8	+ 2.3	34	5	3	0.56	- 0.11	8.9	-	14	-
	Bawtry (Hesley Hall)	56	33	53.1	42.0	47.6	+ 3.5	39	0	3	0.34	- 0.16	*	*	*	*
	Loughborough	59	30	54.0	39.1	46.6	+ 1.9	44	8	3	0.42	- 0.11	*	*	*	*
	Colly Weston (Stamford)	59	34	53.4	41.7	47.6	+ 3.0	40	1	4	0.47	- 0.10	*	*	*	*
	Cheadle	55	37	51.4	41.7	46.6	+ 3.3	33	1	3	0.76	+ 0.06	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	56	39	52.4	42.7	47.6	+ 3.0	39	0	3	0.65	+ 0.08	13.0	-	20	-
5. ENGLAND, S.	Churchstoke	56	31	52.7	40.2	46.5	+ 2.7	39	5	4	0.70	- 0.05	14.3	- 0.3	23	- 1
	Hereford	56	34	53.5	39.2	46.4	+ 1.1	43	8	4	1.37	+ 0.77	*	*	*	*
	Cirencester	57	35	53.7	40.4	47.1	+ 3.2	42	4	5	0.87	+ 0.19	22.4	+ 6.1	35	+ 10
	Oxford	57	33	54.4	41.1	47.8	+ 3.4	44	3	4	0.45	- 0.08	13.5	- 1.9	21	- 3
	London	59	41	55.7	44.6	50.2	+ 4.2	57	0	6	0.58	+ 0.04	8.44	- 3.04	134	- 54
	Swarraton (Alresford)	60	35	55.2	42.7	49.0	+ 4.5	49	0	5	0.99	+ 0.25	*	*	*	*
6. SCOTLAND, W.	Dungeness	59	46	56.1	49.1	52.6	+ 5.1	74	0	4	0.51	- 0.12	20.7	-	32	-
	Hastings (St. Leonards)	59	45	56.0	48.5	52.3	+ 4.9	72	0	5	0.75	- 0.02	18.4	- 1.4	28	- 2
	Southampton	59	42	57.0	46.5	51.8	+ 4.8	69	0	5	0.90	+ 0.16	19.2	+ 1.5	30	+ 2
	Portland Bill	58	45	56.0	48.1	52.1	+ 3.7	71	0	5	0.62	-	*	*	*	*
	Shaftesbury	56	40	53.6	42.9	48.3	+ 4.0	44	0	5	0.85	+ 0.04	*	*	*	*
	Laudale (Loch Sunart)	57	37	53.6	43.1	48.4	+ 3.6	45	0	7	1.94	+ 0.11	*	*	*	*
7. ENGLAND, N.W.	Glasgow	56	35	51.9	43.5	47.7	+ 4.1	40	0	5	0.54	- 0.33	0.6	- 8.2	1	- 13
	Cally	56	30	52.9	39.7	46.3	+ 2.4	40	6	6	2.39	+ 1.21	*	*	*	*
	Douglas (Isle of Man)	55	33	53.3	42.9	48.1	+ 2.1	43	0	6	1.04	- 0.01	13.3	- 3.7	21	- 6
	Newton Reigny	56	26	52.1	38.1	45.1	+ 3.0	38	11	5	1.17	-	12.6	-	20	-
	Stonyhurst	56	33	51.1	42.2	46.7	+ 2.4	33	0	4	0.45	- 0.61	8.0	- 5.2	13	- 8
	Blackpool	57	33	53.3	42.6	48.0	+ 2.6	42	0	5	0.53	- 0.31	13.3	+ 0.1	21	0
8. ENGLAND, S.W.	Manchester (Prestwich)	57	32	52.8	43.0	47.9	+ 3.4	41	0	4	0.60	- 0.22	8.0	-	13	-
	Liverpool Obs. (Bidston)	55	38	52.4	43.0	47.7	+ 2.0	40	0	4	0.39	- 0.30	13.8	-	22	-
	Chester	58	33	55.7	43.1	49.4	+ 3.1	52	0	5	0.44	-	*	*	*	*
	Llandudno	59	42	55.0	45.2	50.1	+ 2.6	57	0	6	0.39	- 0.41	15.8	+ 1.3	25	+ 2
	Holyhead	57	43	53.4	45.9	49.7	+ 1.7	54	0	5	0.96	+ 0.04	*	*	*	*
	Llandovery	59	37	54.7	42.1	48.4	+ 3.6	45	0	5	1.37	+ 0.20	*	*	*	*
9. IRELAND, N.	Pembroke	57	46	55.3	47.0	51.2	+ 2.5	64	0	4	0.88	- 0.02	15.6	- 1.4	24	- 2
	Clifton	58	41	54.5	44.1	49.3	+ 3.6	51	0	6	0.71	- 0.08	*	*	*	*
	Bath	59	30	56.0	42.6	49.3	+ 2.9	51	0	6	0.71	+ 0.02	17.2	-	27	-
	Arlington (N. Devon)	58	41	54.4	43.9	49.2	+ 3.6	50	0	4	1.11	- 0.24	*	*	*	*
	Cullompton	60	39	56.3	43.3	49.8	+ 4.3	55	0	6	1.16	+ 0.33	19.2	+ 3.9	30	+ 6
	Falmouth	59	47	56.1	50.7	53.4	+ 4.3	80	0	5	1.05	- 0.17	23.5	+ 3.7	36	+ 6
10. IRELAND, S.	Plymouth	59	44	57.2	49.4	53.3	+ 5.1	79	0	5	1.40	+ 0.57	19.4	+ 1.6	30	+ 2
	Malin Head	53	40	51.0	45.0	48.0	+ 1.7	42	0	7	1.33	+ 0.62	*	*	*	*
	Edenfel (Omagh)	54	38	51.0	42.0	46.5	+ 3.2	32	0	6	2.04	+ 1.20	*	*	*	*
	Blacksod Point	56	45	52.7	47.0	49.9	+ 2.7	55	0	6	1.14	- 0.06	*	*	*	*
	Markree Castle	58	35	52.8	41.3	47.3	+ 2.7	38	1	7	2.22	+ 1.30	10.8	- 4.4	17	- 7
	Armagh	55	40	52.8	42.2	47.5	+ 3.2	39	0	4	1.23	+ 0.59	10.4	- 5.7	17	- 9
CHANNEL ISLANDS	Donaghadee	55	37	53.7	45.0	49.4	+ 3.7	52	0	7	0.97	+ 0.24	*	*	*	*
	Dublin	57	39	54.9	45.4	50.2	+ 3.5	57	0	5	1.36	+ 0.77	5.0	- 14.4	8	- 23
	Parsonstown	55	30	52.4	40.7	46.6	+ 1.7	38	4	7	2.78	+ 2.10	12.3	- 5.2	20	- 8
	Kilkenny	56	31	53.4	42.0	47.7	+ 1.9	40	0	6	2.36	+ 1.67	*	*	*	*
	Roche's Point	58	45	54.3	48.7	51.5	+ 3.1	67	0	5	1.87	+ 0.83	*	*	*	*
	Valencia	57	44	54.6	48.0	51.3	+ 2.4	65	0	7	1.80	+ 0.50	5.6	- 12.6	9	- 20
CHANNEL ISLANDS	Killarney	60	43	56.3	47.1	51.7	+ 4.5	68	0	5	1.88	+ 0.48	*	*	*	*
	Foynes	59	40	54.4	44.4	49.4	+ 3.1	52	0	6	1.75	+ 0.82	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	48	56.7	50.1	53.4	+ 2.2	80	0	5	1.67	+ 0.84	24.4	-	38	-
	Jersey	63	46	58.9	50.6	54.8	+ 4.4	90	0	5	0.61	- 0.33	21.7	+ 0.9	33	+ 1

Stations Marked $\mathcal{M}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 2nd November.

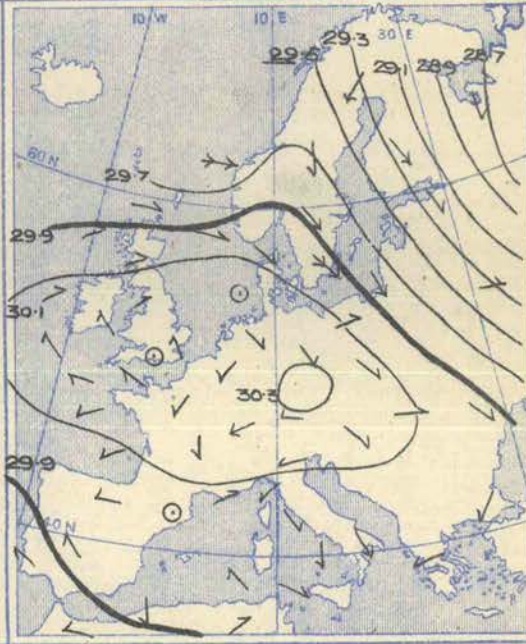
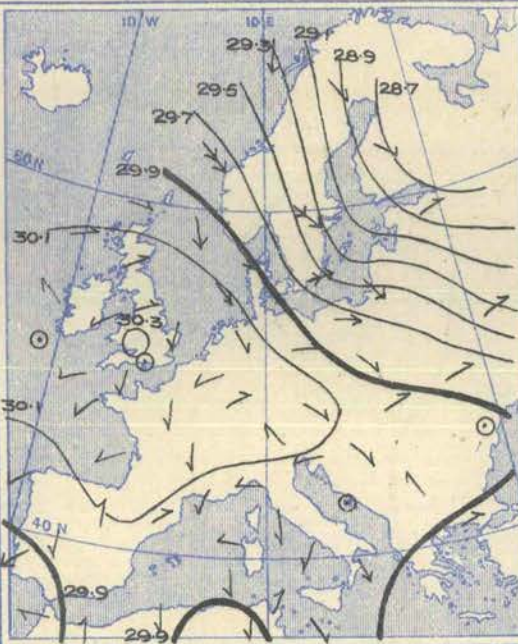
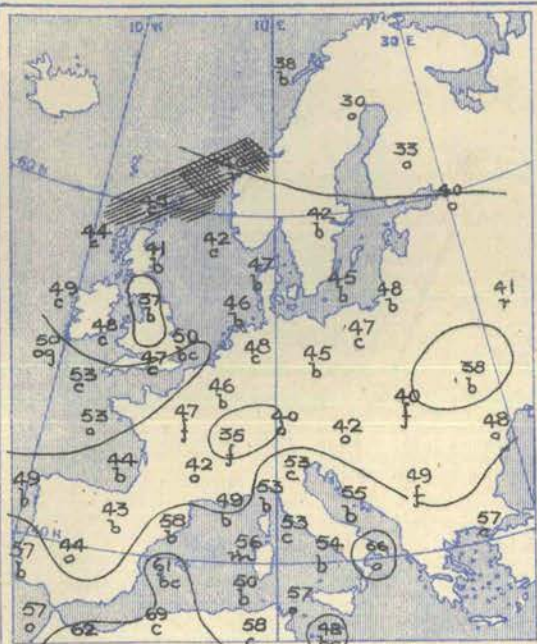
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but dull in the south of Ireland, the Channel Islands, and the north-west of France, with slight rain at Jersey. Dull over Russia and eastern Germany, with rain at Moscow, and also at Christiansund. Rain falling later in Ireland, the west and north of Scotland, and the west of Norway, rather heavily at Sumburgh Head and Christiansund; snow reported at Archangel and St. Petersburg.

Temperature fallen generally, but risen over Russia, Germany, and western and central France. Morning readings highest, 66° at Brindisi, 62° at Nemours, 61° at Palma, and 60° at Algiers; above 55° at the Mediterranean stations generally. Lowest, (1) 30° at Loughborough, 31° at Parsonstown, and 35° at Leith; (2) 30° at Uleaborg, and 33° at Kuopio. Rising during day to between 50° and 55° in most parts of the United Kingdom, and to 57° at Scilly and Jersey; exceeding 60° over southern Europe generally, and reaching 73° at Palermo, and 75° at Sanguinaire.

Wind light from the North-Eastward over the Netherlands, the south of England, and the greater part of France, and fresh or strong from the same quarter or from East in Portugal. Light from the Southward or South-Westward over the northern parts of the United Kingdom, strong to a gale from the North-Westward in Scandinavia, light to moderate from the Westward over Germany, Austria, and Russia, Northerly over Italy and the Mediterranean. Light to moderate Easterly or South-Easterly breezes setting in later over the southern parts of the United Kingdom; wind backing to the Westward on the Norwegian coasts, but continuing to blow strongly.

Barometer highest, 30.3 ins. and upwards over central England, 30.1 ins. and upwards in an anticyclone covering nearly the whole of western and central Europe. Lowest, 29.3 ins. and less in a large and deep cyclonic system with its centre over the extreme north of Russia; gradients steep over northern Europe generally. Anticyclone moving slowly eastwards during day; cyclonic disturbance travelling more rapidly in a similar direction, but new depression approaching the Norwegian coasts in evening.

Monday, 3rd November.

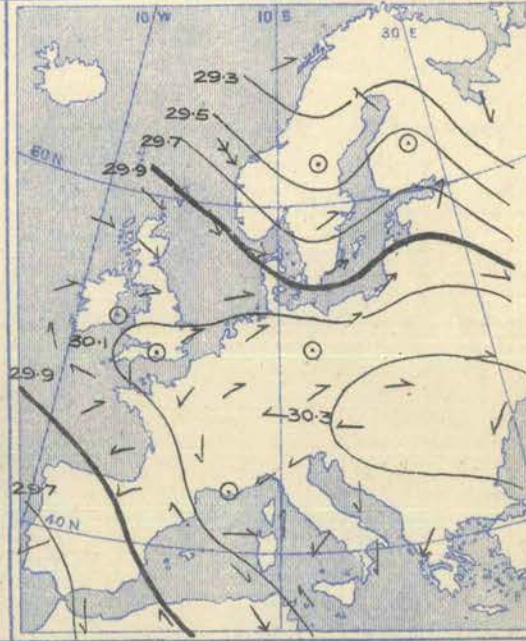
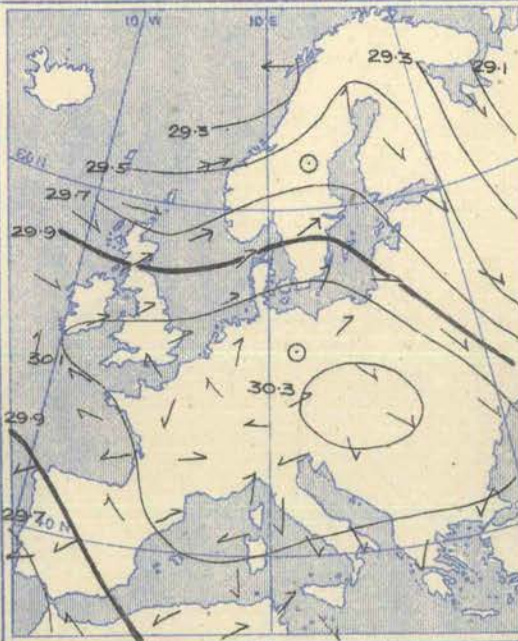
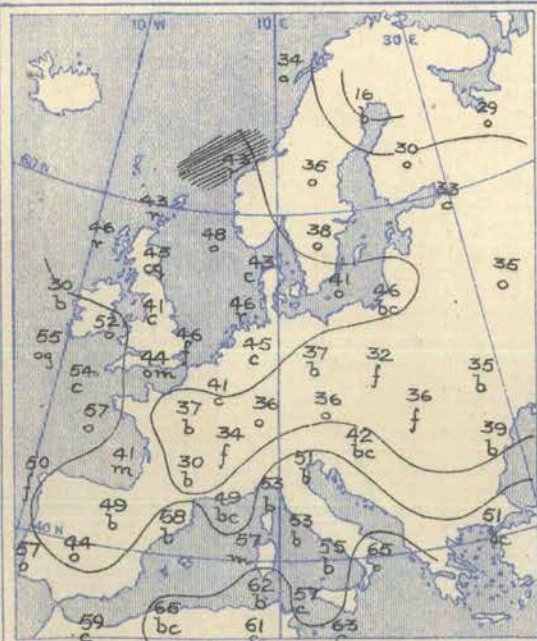
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair over England and the central and southern parts of the Continent generally, but with fog or mist locally. Dull over Ireland, Scotland, and northern Europe generally, with rain in several places. Sky clearing later in many parts of Ireland and Scotland, but alight rain falling in Sweden and northern Russia, and larger quantities in the west of Norway.

Temperature risen in our Islands and Norway, but fallen in most other countries. Morning readings highest, 65° at Brindisi and Algiers, 64° at Patras, and 63° at Malta, above 60° at most of the Mediterranean stations. Lowest, (1) 16° at Haparanda, 21° at Uleaborg, 29° at Archangel, and 30° at Kuopio; (2) 30° at Lyons, and 32° at Vienna. Rising during day to 55° and upwards at most of the English and Irish stations, and to 58° at Shields, Roche's Point, and Scilly; exceeding 60° over southern Europe generally, and reaching 73° at Palermo, and 75° at Sanguinaire.

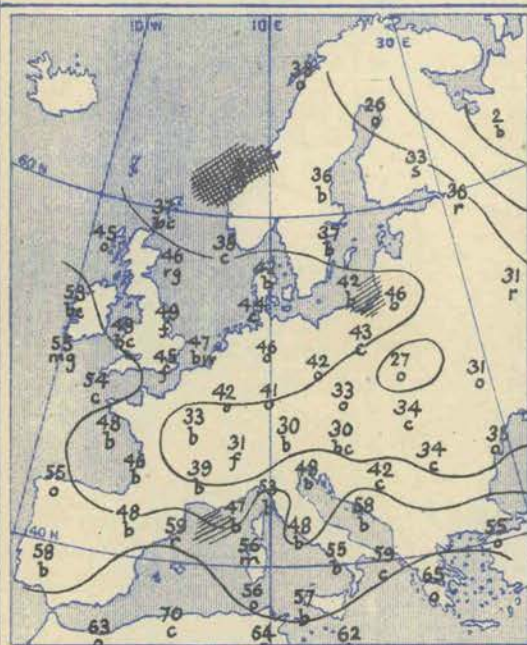
Wind light from the South-Westward over the greater part of our Islands, Denmark, the Baltic, and the south of Sweden, and strong from the same quarter in the west and south of Norway, with a gale at Christiansund; Easterly or North-Easterly in the south of Scandinavia, North-Westerly or Westerly in Russia, variable in Austria, Northerly or North-Westerly in Italy, Easterly or North-Easterly over the Bay of Biscay and the Spanish Peninsula. Subsequently veering to the North-Westward in the west of Norway; no decided change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards over Austria, 30.1 ins. and upwards in an anticyclone lying over England and the central and southern parts of the Continent generally. Lowest, 29.2 ins. and less in a cyclonic disturbance over northern Russia, 29.3 ins. and less in another system off the northern parts of the Norwegian coasts, 29.7 ins. and less in a third disturbance off the Portuguese coasts. Depression off Norwegian coasts subsequently moving eastwards; no decided change occurring elsewhere.

Tuesday, 4th November.

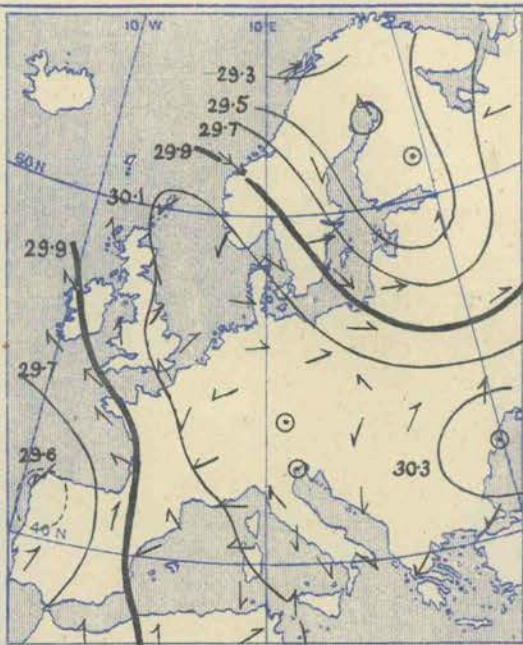
Temperature and Weather.

8 a.m.

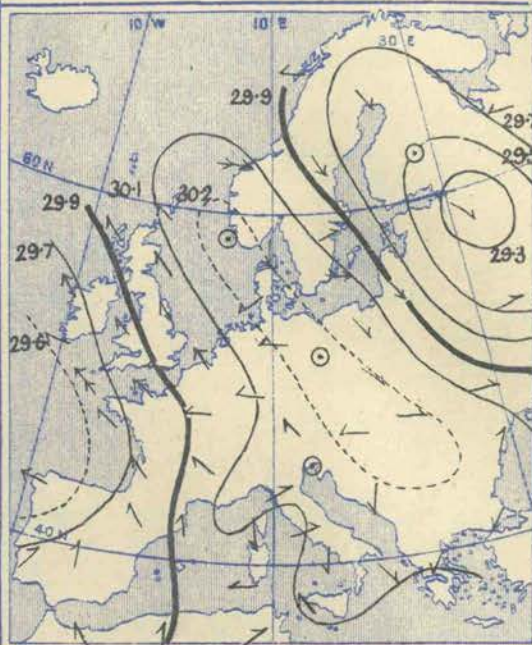


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, with fog over central England, at Shields, and Frankfurt, rain in the east of Scotland, and rain or snow over Norway, Finland, and northern Russia. Fine and bright over Sweden, on our southern and south-eastern coasts, over France, most parts of Italy, and a few Austrian stations. Rain falling later in our own western and northern districts, and in several parts of north-eastern Europe, as well as in the west and north of France. Thunderstorm occurring at Brest.

Temperature changed irregularly. Readings at 8 a.m. highest, 70° at Algiers, 64° at La Calle and Patras, and above 50° at almost all stations on the shores of the Mediterranean and Adriatic, and on our own extreme western and southern coasts. Lowest, 2° at Archangel, 26° at Haparanda, between 29° and 34° over the central countries and the greater part of Russia, 33° at Paris, and 37° at Sumburgh Head and Christiansund. Rising later during day to 58° at Leith, 59° at Jersey, to above 60° over southern Europe generally, to 72° at Palermo, 75° at Biarritz, to 77° at Marseilles and Algiers, and 79° at La Calle.

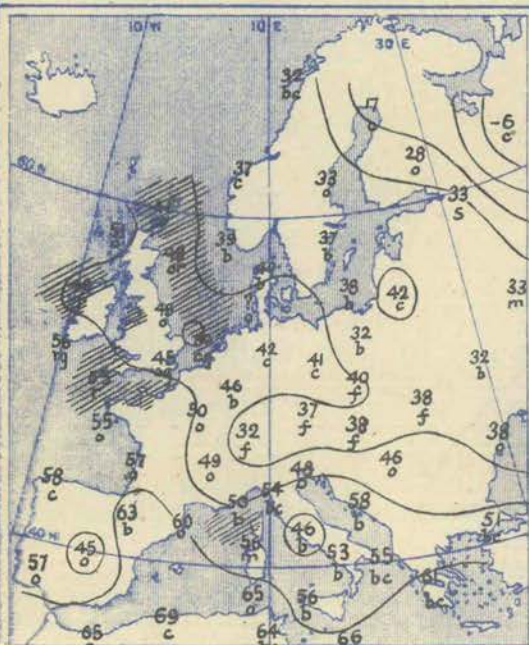
Wind at 8 a.m. moderate or fresh from between South-East and East over France, England and Ireland, and North-Easterly at Corunna. Southerly in Scotland, North-Westerly, strong to a gale over the greater portion of the Scandinavian Peninsula, and light from the Westward or Southward in Finland. Light and chiefly anticyclonic over central and southern Europe. No great or general change in direction by evening, but force increasing to a slight gale on our south-west coasts, and wind veering to North-West and increasing considerably in Finland.

Barometer at 8 a.m. highest, above 30.3 ins. to 30.2 ins. in an anticyclone extending from the Black Sea across central Europe. Lowest, 29.3 ins. and less in a complex disturbance over Finland and Lapland; below 29.6 ins. in another system over the north-west of Spain. Former depression travelling south-eastwards during day, and the latter moving and spreading north-eastwards. Anticyclone drifting northwards, but becoming more restricted in size.

Wednesday, 5th November.

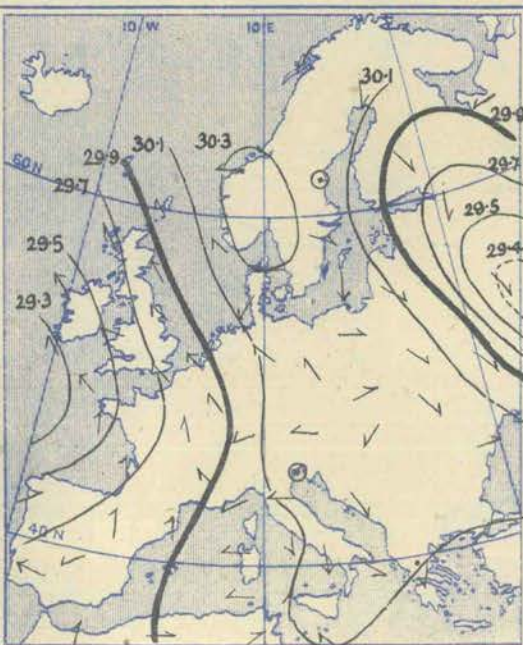
Temperature and Weather.

8 a.m.

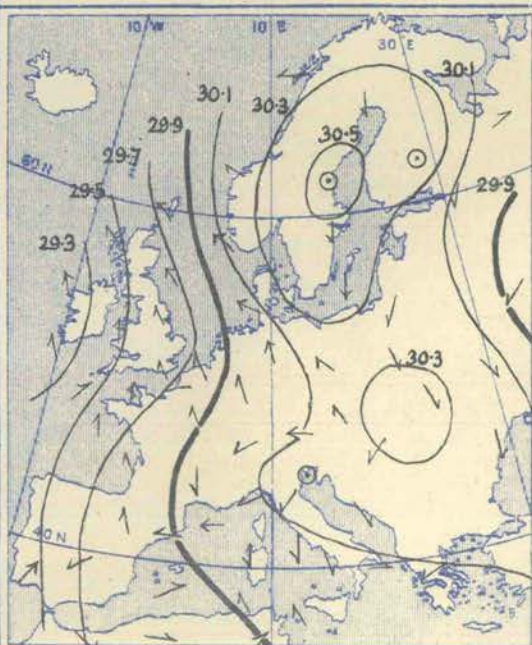


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine over Italy and also in the south of Scandinavia, cloudy or dull in most other regions; foggy over south Germany and Austria. Rain very general over Ireland, the south-western counties of England, and the east of Scotland, and snow prevailing at St. Petersburg. Rain falling in all parts of the United Kingdom later, at a few French stations, and as much as 1.5 ins. at Lisbon. Snow becoming more general over northern Russia. Fog clearing over central Europe.

Temperature at 8 a.m. highest, 69° at Algiers, 66° at Malta, 65° at Cagliari, 63° at Biarritz, 56° at Valencia, 51° in the Hebrides. Lowest, -6° at Archangel, +17° at Haparanda, 30° at Fano, 31° at Karlstad, below 40° over the whole of Russia and the major portion of central Europe. Lowest in our Islands, 41° at Newton Reigny. Maxima during day 58° at Leith and on the south coast of England, 63° at Jersey, 70° at many of the extreme southern stations, 73° at Palermo, and 77° on the Algerian coast. Remaining below 50° over Germany and most parts of Austria-Hungary.

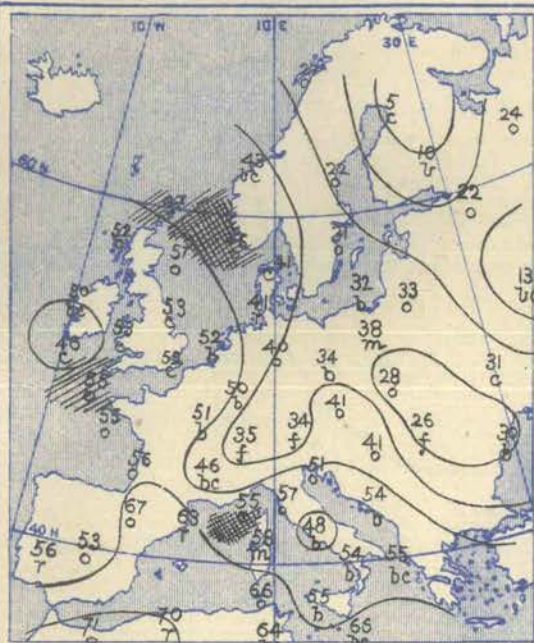
Wind in morning strong to a gale from the South-Eastward over the United Kingdom, South-Westerly, moderate, in the north-west of Spain, and Southerly, moderate, over France. Northerly to North-Westerly over the Baltic, Finland, and Russia, and mostly of moderate strength. Light and anticyclonic in a large area extending from Greece to the north of Norway. No material change later as a whole, but wind veering somewhat over our Islands, and increasing in the east of Scotland.

Barometer at 8 a.m. ranging from 30.3 ins. to 30.2 ins. in a large anticyclone covering the greater part of Scandinavia and the adjacent portion of the Atlantic, and stretching south-south-eastwards to Hungary, to less than 29.3 ins. in a large disturbance with its centre off the south-west of Ireland, and to less than 29.4 ins. in another system near Moscow. Latter disturbance moving away eastwards later, and the former travelling northwards. Anticyclone increasing both in extent and intensity.

Thursday, 6th November.

Temperature and Weather.

8 a.m.

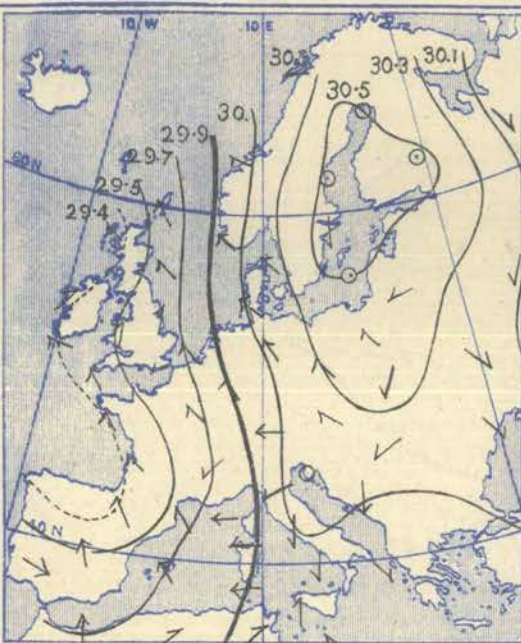


Weather at 8 a.m. cloudy or dull generally, but fine and bright on our south-eastern coasts and the adjacent portion of the Continent, in Italy, and at some stations over central and southern Russia. Rainy in the Shetlands, at Roche's Point, Lisbon, and Fanø. Rain falling later throughout our Islands and France, and also at Turin—as much as 0.6 in. at the station just named, 1.0 in. at Roche's Point, and 1.5 ins. at Parsonstown.

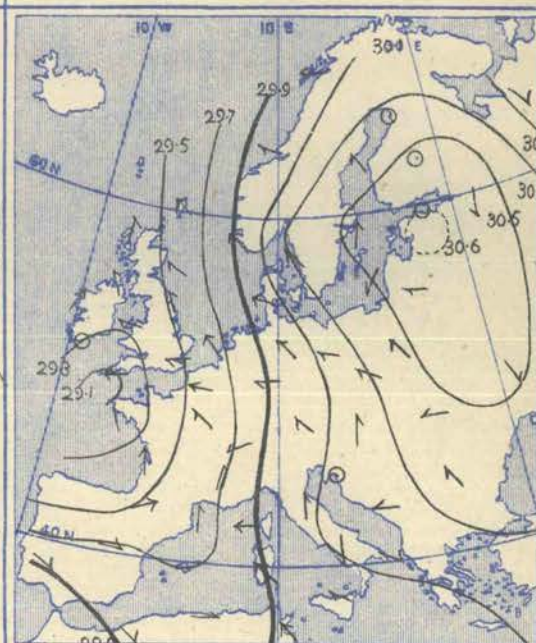
Temperature risen over the western half of our area and at Archangel, fallen in most of the more eastern regions. Readings at 8 a.m. highest, 71° at Nemours, 70° at Algiers, and above 60° at several stations in the western part of the Mediterranean, 67° at Biarritz, above 50° in almost all British districts. Lowest, 5° at Ulesborg, 13° at Moscow, 28° at Lemberg, 28° at Warsaw, 29° at Karistad, 34° at Munich, 48° at Rome. Subsequently rising to 61° at Leith, 59° in London and at Loughborough, 73° at Biarritz, 75° at Palermo and Patras, and to 82° at Algiers. Not touching 50° in most parts of central Europe and only 27° at St. Petersburg.

Barometer and Wind.

8 a.m.



6 p.m.



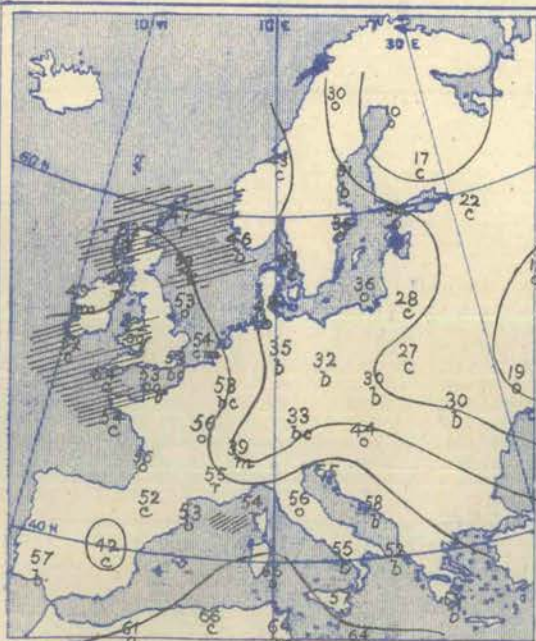
Wind in morning strong from West-North-West at Lisbon, moderate to fresh from the South-Eastward over France and our own southern districts, light or moderate from South over the north of England and Ireland, and from South-East in Scotland. South-Easterly gales prevailing on the eastern shores of the North Sea. Light and anticyclonic over the eastern half of Europe. Strong from East at Cape Sicié and Cagliari. Wind shifting to Northward at Roche's Point by evening and blowing strongly, and a strong Westerly gale prevailing for a short time at Scilly. Gales on the eastern shores of the North Sea continuing.

Barometer at 8 a.m. ranging from 30.5 ins. and upwards over the Gulf of Bothnia and its neighbourhood, to less than 29.4 ins. over the Bay of Biscay and on the Atlantic shores of our Islands. Northern high-pressure moving slowly eastwards and increasing in intensity during day, and a well-defined and rather deep disturbance appearing near the Scilly Isles.

Friday, 7th November.

Temperature and Weather.

8 a.m.

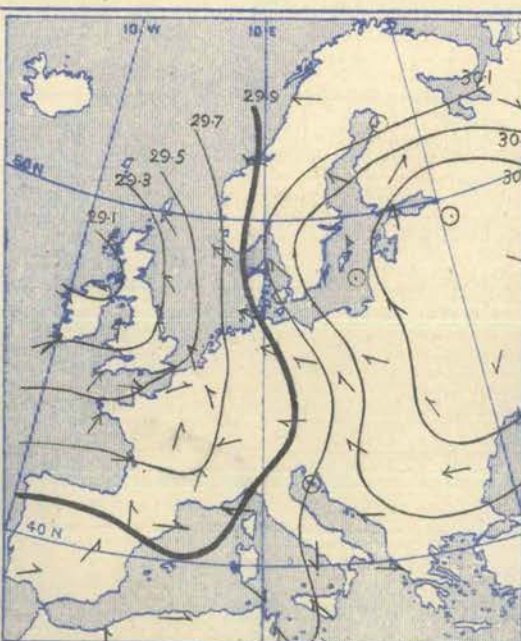


Weather in morning rainy in many parts of Ireland and Scotland, and showery at several of the English stations. Fine over northern and eastern Germany, and also over Greece and southern Italy, but cloudy or dull over the Continent generally, with rain over central and southern France and some parts of northern Italy. Improvement taking place later in most parts of the United Kingdom, but heavy rain falling over Italy and the south of France—as much as 2.4 ins. at Gap, 2.0 ins. at Rome, and 1.9 ins. at Florence.

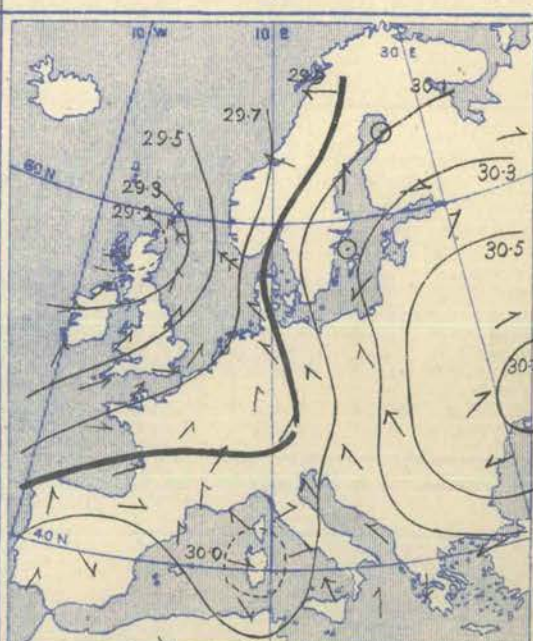
Temperature changed very irregularly over western and southern Europe; risen over Scandinavia and northern Russia, but fallen over Denmark and northern Russia. Morning readings highest, 60° at Cagliari and Algiers, and 64° at Tunis and Malta; above 55° at most of the Mediterranean, Adriatic, and Spanish coast stations, and also at Paris. Lowest, 10° at Haparanda, 17° at Kuopio and Kharkov, and 18° at Moscow; below the freezing point over northern and eastern Europe generally. Rising during day to 55° and upwards in most parts of Great Britain, and to 60° at Jersey; exceeding 60° over southern Europe, and reaching 70° at Palermo and 75° at Constantinople.

Barometer and Wind.

8 a.m.



6 p.m.



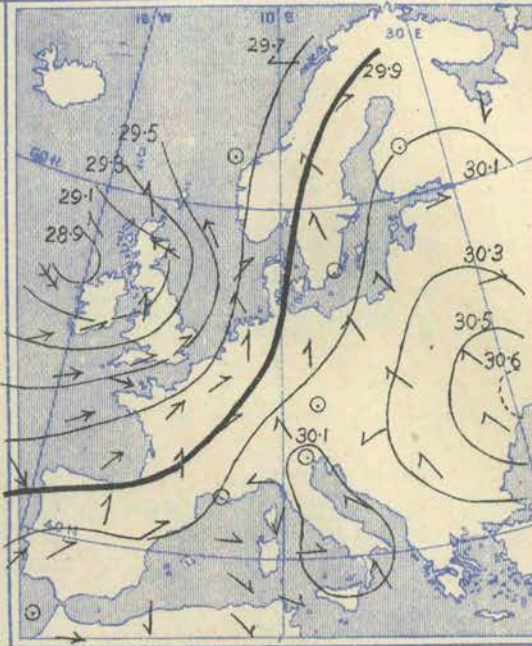
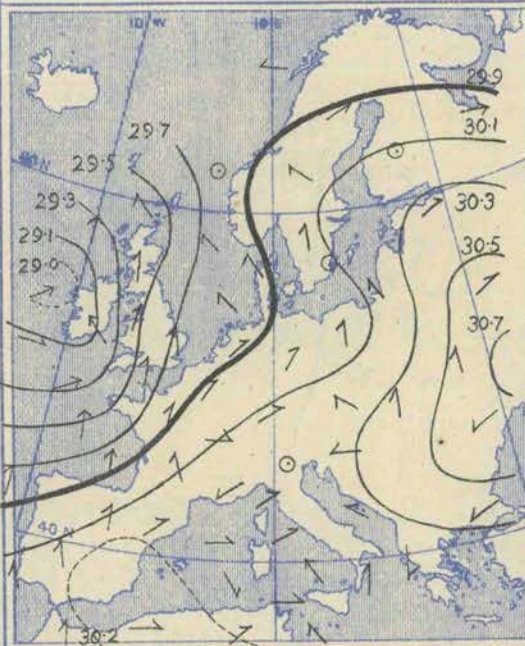
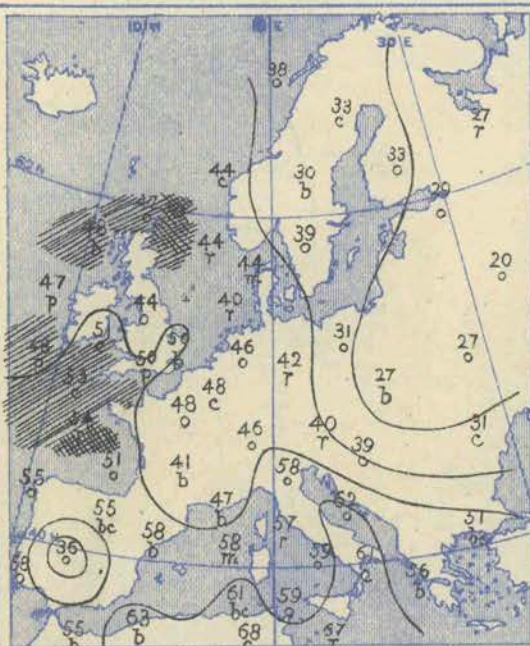
Wind Westerly or South-Westerly in the west and south of our Islands, and also over France and the Spanish Peninsula; strong in force in the English, Bristol, and St. George's Channels. South-Easterly in the north and east of our Islands, and also over the northern and central parts of the Continent, with a gale in the north of Scotland and the south of Norway; Easterly to Northerly over Greece and southern Italy. Subsequently veering to the South-Westward in the northern and eastern parts of the United Kingdom, but backing to the Southward in the west of Ireland.

Barometer highest, 30.5 ins. and upwards in a large anticyclone lying over western and central Russia. Lowest, 29.1 ins. and less in a large and rather deep depression with its centre off the north of Ireland, the borders of the system extending over the greater part of western Europe; gradients steep over the North Sea. Depression subsequently travelling away to the northward of the Hebrides, but new disturbance beginning to approach the Irish coasts in evening.

Barometer and Wind.

8 a.m.

6 p.m.



Wind Southerly or South-Easterly over western and northern Europe generally, and strong to a gale in force in the English, Bristol, and St. George's Channel, but Westerly in the west and south of Ireland. Westerly or South-Westerly over northern and central Russia; variable in Italy. Subsequently veering to the South-Westward or Westward over England, and blowing very strongly in most places; increasing to a gale from the South-Eastward in the north and east of Scotland.

Barometer highest, 30·7 ins. and upwards over the south of Russia; 30·2 ins. and upwards in an anticyclone lying over nearly the whole of Russia, and also in another system over Spain and Algeria. Lowest, 29·0 ins. and less in a large and rather deep cyclonic system, with its centre off the north of Ireland. Disturbance subsequently moving slowly north-eastwards, and barometer rising again on our western coasts; decided fall taking place in the north and east of Great Britain.

GENERAL NOTES.

where a decided improvement in the weather occurred. Over the United Kingdom and the neighbouring parts of the Continent the conditions were, however, affected by cyclonic disturbances of considerable size and depth, the centres advancing towards our Islands, as a rule, from the south-westward, and afterwards moving northwards either over or outside our western coasts. Strong winds or gales from South-East, veering to South-West, were consequently experienced very generally, with frequent falls of rain, the latter being heavy at many of our western stations. At the close of the week one of these disturbances, which had appeared off our north-west coasts early on Saturday, was travelling slowly north-eastwards across the north-west of Scotland, and the weather over western Europe generally remained very squally and unsettled.

By the middle of the period the western anticyclone had passed away to the south of Russia, but a new high-pressure system had been developed over the more northern countries,

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 266.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESS	10.6	- 0.9	18	- 2	WORKSOP	15.1	+ 1.9	24	+ 3	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	10.9	- 2.1	19	- 3	THURCASTON	16.6	+ 2.0	26	+ 3	SOUTHPORT	9.7	—	15	—
EDINBURGH	6.9	- 6.1	11	- 10	MARGATE	14.3	- 3.1	22	- 5	RHYL	21.5	—	34	—
MORPETH	13.0	—	21	—	BROADSTAIRS	15.6	—	24	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	3.4	—	5	—	EASTBOURNE	19.4	+ 0.9	30	+ 1	ABERDOVEY	14.6†	—	23†	—
YORK	5.4	- 6.7	9	- 11	BRIGHTON	17.2	- 2.1	26	- 3	TENBY	13.5	- 3.3	21	- 6
CROMER	19.9	—	32	—	WORTHING	18.1	—	28	—	NEWQUAY	13.4	- 6.9	21	- 11
LOWESTOFT	11.9	—	19	—	BOGNOR	17.4†	—	27†	—	TORQUAY	19.3	+ 2.2	31	+ 3
DUNMOW	8.0	—	13	—	WATERGATE	19.2	—	30	—	GUERNSEY	13.5†	- 4.7	21†	- 7
HOLLESLEY BAY	16.2	—	25	—	WESTBOURNE	16.8†	- 1.1	26†	- 2					
SHEFFIELD	9.8	—	16	—	VENTNOR HOSPITAL	20.1	+ 1.1	31	+ 2					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.			NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)								Rainfall.			Bright Sunshine.			
				Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
						Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
Week ending	Oct.	4th, 1902.	Hollesley Bay	—	—	—	—	—	—	—	—	—	—	—	15·7	—	20	—
"	"	18th "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	19·4	—	27	—
"	"	25th "	Tenby	—	—	—	—	—	—	—	—	—	—	—	17·9	— 4·7	26	—
"	Nov.	1st "	Foynes	61	43	58·5	47·7	52·0	+ 4·9	70	0	4	0·32	— 0·53	—	—	—	6
"	"	" "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	15·5	—	23	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, NOVEMBER 15TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 272.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest	Averages of			Above or below the Mean for the Week.	For the Week.				From December 20th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	62	35	52.5	43.1	47.8	6 above	Day-deg. 41	Day-deg. +22	Day-deg. 0	Day-deg. -16	Day-deg. 1817	Day-deg. -147	Day-deg. 682	Day-deg. +30
	1. SCOTLAND, EAST	60	31	51.8	40.0	45.9	5 above	36	+16	6	-14	1995	-320	764	+47
	2. ENGLAND, N.E.	55	37	52.4	43.0	47.7	4 above	40	+16	0	-13	2413	-125	522	+42
	3. ENGLAND, EAST	61	30	53.1	40.8	47.0	3 above	40	+12	3	-11	2831	-102	522	-97
	4. MIDLAND COUNTIES	57	32	51.6	42.3	47.0	4 above	35	+8	0	-16	2685	-184	526	-118
5. ENGLAND, SOUTH	58	29	53.9	43.2	48.5	3 above	46	+9	0	-9	3014	-210	358	-93	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	32	53.0	43.3	48.2	5 above	43	+18	0	-12	2344	-122	487	-1
	7. ENGLAND, N.W.	57	34	52.6	44.6	48.6	4 above	46	+17	0	-9	2583	-133	421	-32
	8. ENGLAND, S.W.	60	33	54.0	44.6	49.3	4 above	51	+12	0	-6	2964	-62	324	-21
	9. IRELAND, NORTH	58	34	52.8	42.7	47.8	4 above	41	+13	0	-11	2449	-161	339	-77
	10. IRELAND, SOUTH	58	35	54.1	43.6	48.9	3 above	48	+11	0	-8	2973	-3	240	-65
— CHANNEL ISLANDS		59	38	55.7	46.2	51.0	1 above	63	+6	0	-1	3551	-2	99	-27

DISTRICTS. (See p. 272.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 20th, 1901.					For the Week.				From December 20th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 8	10ths of in. 5 less	225	+24	Ins. 40.1	Ins. -2.9	13	+4	23	+7	1058	-28	26	-1	
	1. SCOTLAND, EAST	4	4	3 less	189	+17	21.9	-5.6	16	+4	23	+6	1092	-155	27	-4	
	2. ENGLAND, N.E.	2	2	4 less	162	+3	18.7	-3.6	11	-7	19	-12	1167	-71	29	-2	
	3. ENGLAND, EAST	2	1	5 less	156	-3	19.4	-2.7	18	+2	29	+4	1492	-74	35	-2	
	4. MIDLAND COUNTIES	3	2	4 less	158	+5	21.2	-3.3	11	-1	18	-1	1236	-50	32	-1	
5. ENGLAND, SOUTH	3	3	4 less	155	+6	21.8	-2.8	17	+1	27	+2	1511	-108	36	-3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	17	4 more	200	+21	43.3	-0.1	11	0	18	0	1201	-93	29	-2	
	7. ENGLAND, N.W.	4	4	5 less	186	+18	24.5	-6.0	13	0	21	0	1386	+80	34	+2	
	8. ENGLAND, S.W.	4	7	3 less	169	-3	27.2	-7.5	18	+2	28	+4	1475	-105	37	-3	
	9. IRELAND, NORTH	5	10	2 more	219	+22	31.5	+0.3	22	+8	36	+13	1178	-32	29	-1	
	10. IRELAND, SOUTH	5	14	4 more	181	0	30.2	-4.9	18	+1	29	+2	1337	-46	33	-1	
— CHANNEL ISLANDS		5	6	4 less	181	+8	24.2	-4.0	27	+9	42	+15	1663	-170	41	-4	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was mostly fair and dry in the eastern and central parts of the United Kingdom, but with a good deal of fog or mist in the latter half of the week. In the western and extreme northern districts rain was frequent, and at times rather heavy, amounts exceeding an inch being collected in some parts of Ireland on the 10th, and in the west of Scotland on the following day.

Temperature continued above the mean, the excess amounting to at least 3° or 4° in all districts excepting the Channel Islands, and to as much as 5° or 6° in Scotland. The highest of the maxima, which occurred at various times in different places, but mostly during the latter half of the week, ranged from 62° in Scotland N., 61° in England E., and 60° in Scotland E. and England S.W., to between 57° and 59° in most other districts, but to only 55° in England N.E. The readings of 62° at Glencarron and 60° at Nairn, registered on Saturday, were respectively 14° and 12° higher than the maximum in London on the same day. The lowest of the minima were observed mostly on Thursday or Friday, when slight frost occurred in many parts of Great Britain; in England S. the thermometer fell to 29°, and in England E. to 30°, but in England N.E. it did not go below 37°, while in the Channel Islands it only reached 38°.

Rainfall was in excess of the mean in Ireland and the west of Scotland, but was deficient elsewhere; over the greater part of England the total amount was less than half the average.

Bright Sunshine was more than the mean in most districts. In Scotland W. and England N.W., however, the normal amount was only just equalled, while in England N.E. and the Midland Counties there was a deficiency.

Barometer and Wind.—At the commencement of the week, when the barometer was high both to the eastward and southward of our Islands, the weather over north-western Europe was affected by a deep cyclonic system, the centre of which skirted the north of Scotland, and afterwards moved away to the northward. In its rear the wind was strong to a gale from the Westward or North-Westward on many parts of our coasts. Later on the southern high-pressure system gave way, and the cyclonic areas which continued to advance from the Atlantic moved northwards over or outside our western coasts, the prevailing winds being chiefly Southerly, and occasionally strong to a gale in the west and north. Towards the close of the week a decided anticyclone began to spread over Great Britain from the Continent, and the wind over England shifted to the Eastward.

DISTRICTS.	NAMES OF STATIONS.	Temperature.							Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.							Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).							
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	51	40	49.4	44.7	47.1	+ 4.6	36	0	6	0.76	- 0.20	*	*	*
	Stornoway	58	40	53.7	42.1	47.9	+ 5.4	41	0	6	1.03	- 0.19	13.0	+ 2.8	23 + 5
	Wick	54	40	51.4	42.9	47.2	+ 5.0	36	0	4	0.24	- 0.42	*	*	*
	Lairg	58	35	54.1	40.4	47.3	+ 7.6	44	4	4	0.35	- 0.48	*	*	*
	Glencarron	62	37	53.1	43.4	48.3	+ 7.1	44	0	5	1.02	- 1.19	*	*	*
	Fort Augustus	58	37	52.7	42.0	47.4	+ 5.4	38	0	4	0.50	- 0.52	11.2	+ 6.1	20 + 11
1. SCOTLAND, E.	Fort William	58	42	52.3	45.9	49.4	+ 6.1	52	0	6	1.37	- 0.43	9.0	+ 1.7	16 + 3
	Nairn	60	33	54.3	38.0	46.2	+ 4.7	46	11	3	0.07	- 0.44	*	*	*
	Aberdeen	54	41	51.7	43.0	47.4	+ 5.0	38	0	2	0.39	- 0.31	18.9	+ 5.7	33 + 10
	Braemar	51	31	48.1	37.7	42.9	+ 4.2	24	12	5	0.51	- 0.35	*	*	*
	Ochertyre	53	36	51.3	40.0	45.7	+ 4.2	34	6	5	1.12	+ 0.12	*	*	*
	Leith	57	39	54.6	41.9	48.3	+ 4.8	45	0	3	0.11	- 0.36	*	*	*
2. ENGLAND, N.E.	Marchmont	53	36	51.0	39.1	45.1	+ 3.9	34	8	3	0.24	- 0.53	17.8	+ 5.1	31 + 9
	Alnwick Castle	54	37	52.3	40.6	46.5	+ 3.6	37	4	2	0.29	- 0.45	*	*	*
	Durham	55	42	52.9	44.1	48.5	+ 4.8	46	0	1	0.08	- 0.45	*	*	*
	Shields	55	41	51.8	43.2	47.5	+ 3.3	39	0	4	0.17	- 0.49	11.0	—	18 —
	Scarborough	54	43	53.0	44.4	48.7	+ 4.1	47	0	1	0.17	- 0.33	*	*	*
	Spurn Head	53	41	51.9	42.6	47.3	+ 5.1	37	0	2	0.09	- 0.37	15.0	—	25 —
3. ENGLAND, E.	Fulbeck (Lincolnshire)	54	35	52.2	39.3	45.8	+ 2.6	38	8	3	0.18	- 0.42	17.1	+ 3.5	28 + 6
	Hillington	55	40	52.3	42.7	47.5	+ 3.1	39	0	0	0.00	- 0.64	*	*	*
	Yarmouth	55	32	53.2	40.5	46.9	+ 2.6	41	4	4	0.04	- 0.54	20.7	+ 5.3	33 + 9
	Gedeston	61	34	55.0	38.8	46.9	+ 3.5	48	9	1	0.04	- 0.41	15.9	+ 0.7	26 + 1
	Cambridge	55	37	52.6	44.5	48.6	+ 4.5	46	0	1	0.03	—	24.3†	—	39† —
	Felixstowe	56	30	53.1	39.2	46.2	+ 3.2	41	8	4	0.15	- 0.48	14.6	- 0.4	24 - 1
4. MIDLAND COUNTIES	Rothamsted	52	40	49.7	42.0	45.9	+ 3.6	27	0	4	0.44	- 0.22	10.1	—	17 —
	Harrogate	54	39	52.0	41.7	46.9	+ 4.1	36	1	4	0.29	- 0.26	*	*	*
	Bawtry (Hesley Hall)	54	39	52.6	43.0	47.8	+ 4.4	41	0	1	0.20	- 0.30	*	*	*
	Loughborough	54	38	52.0	41.0	46.5	+ 3.2	36	3	2	0.15	- 0.41	*	*	*
	Colly Weston (Stamford)	53	38	50.0	41.8	45.9	+ 3.9	28	1	4	0.25	- 0.44	*	*	*
	Cheadle	55	40	51.3	43.3	47.3	+ 4.0	37	0	1	0.18	- 0.38	8.8	—	14 —
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	54	40	51.4	43.1	47.3	+ 4.6	37	0	4	0.38	- 0.37	11.6	- 0.8	19 - 1
	Churchstoke	57	42	52.4	44.2	48.3	+ 4.3	44	0	1	0.23	- 0.35	*	*	*
	Hereford	56	32	51.6	39.5	45.6	+ 3.0	36	7	2	0.35	- 0.33	12.2	- 1.6	20 - 3
	Cirencester	56	41	53.3	43.3	48.3	+ 4.7	44	0	1	0.02	- 0.51	15.7	+ 1.4	25 + 2
	Oxford	57	34	54.6	41.4	48.0	+ 3.3	45	2	2	0.03	- 0.50	9.2†	0.0†	15† 0†
	Swarraton (Alresford)	54	29	52.4	39.2	45.8	+ 2.5	38	8	5	0.36	- 0.36	*	*	*
6. SCOTLAND, W.	Dungeness	57	31	54.3	41.7	48.0	+ 1.8	43	1	4	0.09	- 0.51	17.0	—	27 —
	Hastings (St. Leonards)	56	42	53.9	44.8	49.4	+ 3.5	52	0	3	0.14	- 0.62	13.4	- 3.8	22 - 6
	Southampton	58	35	54.8	42.8	48.8	+ 3.1	48	0	3	0.59	- 0.14	16.3	+ 1.3	26 + 2
	Portland Bill	57	47	55.1	48.4	51.8	+ 4.4	69	0	3	0.62	—	*	*	*
	Shaftesbury	55	41	52.0	43.8	47.9	+ 4.9	41	0	3	0.48	- 0.32	*	*	*
	Douglas (Isle of Man)	55	36	53.3	43.9	48.6	+ 3.6	46	0	5	1.37	+ 0.31	17.5	+ 2.5	29 + 4
7. ENGLAND, N.W.	Landale (Loch Sunart)	55	41	52.9	45.2	49.1	+ 5.3	50	0	6	2.73	+ 0.83	*	*	*
	Glasgow	54	42	51.2	44.1	47.7	+ 5.1	40	0	5	0.86	- 0.01	3.8	- 2.9	7 - 5
	Cally	57	32	54.6	39.8	47.2	+ 4.3	46	6	5	1.78	+ 0.56	*	*	*
	Newton Reigny	52	34	50.7	39.7	45.2	+ 4.6	32	6	4	0.60	—	12.9	—	22 —
	Stonyhurst	52	41	50.1	43.9	47.0	+ 3.9	35	0	3	0.38	- 0.66	6.4	- 4.4	11 - 7
	Blackpool	55	40	53.4	44.3	48.9	+ 4.7	48	0	5	0.60	- 0.20	11.0	+ 0.1	18 0
8. ENGLAND, S.W.	Manchester (Prestwich)	54	40	51.8	44.2	48.0	+ 4.7	42	0	3	0.51	- 0.29	7.7	—	13 —
	Liverpool Obsy. (Bidston)	54	42	52.1	45.3	48.7	+ 4.1	47	0	4	0.19	- 0.46	13.0	—	21 —
	Chester	56	42	54.3	45.4	49.9	+ 5.0	55	0	2	0.13	—	*	*	*
	Llandudno	57	45	54.5	47.2	50.9	+ 4.5	62	0	6	0.17	- 0.60	15.8	+ 3.1	26 + 5
	Holyhead	55	46	53.6	46.4	50.0	+ 3.0	56	0	5	0.46	0.45	*	*	*
	Llandoverly	57	36	52.6	41.1	46.9	+ 3.3	38	3	6	0.51	- 0.64	*	*	*
9. IRELAND, N.	Pembroke	58	47	55.0	49.1	52.1	+ 4.3	71	0	5	1.28	+ 0.38	10.4	- 4.6	17 - 7
	Clifton	57	44	53.2	46.3	49.8	+ 5.3	55	0	2	0.27	- 0.50	*	*	*
	Bath	58	33	54.3	40.4	47.4	+ 2.3	45	4	3	0.27	- 0.42	14.3	—	23 —
	Arlington (N. Devon)	56	41	52.1	43.4	47.8	+ 3.2	41	0	8	1.05	- 0.30	*	*	*
	Cullompton	58	35	54.0	41.2	47.6	+ 3.2	43	2	3	0.77	- 0.07	14.5	+ 1.4	23 + 2
	Falmouth	59	46	54.4	47.4	50.9	+ 2.8	62	0	4	0.42	- 0.80	25.2	+ 7.8	40 + 12
10. IRELAND, S.	Plymouth	60	41	56.0	47.8	51.9	+ 4.8	69	0	4	1.03	+ 0.20	21.6	+ 6.3	34 + 10
	Malin Head	54	42	51.4	44.6	48.0	+ 2.7	42	0	5	0.51	- 0.22	*	*	*
	Edenfel (Omagh)	54	34	51.7	40.1	45.9	+ 3.7	35	5	6	1.00	+ 0.17	*	*	*
	Blacksod Point	58	46	54.6	47.7	51.2	+ 5.1	64	0	6	1.08	+ 0.76	*	*	*
	Markree Castle	55	35	52.9	41.8	47.4	+ 3.8	39	1	6	1.14	+ 0.22	21.1	+ 7.6	35 + 13
	Armagh	55	35	52.8	41.8	47.3	+ 4.0	38	1	3	0.35	- 0.31	21.9	+ 7.5	37 + 13
CHANNEL ISLANDS	Donaghadee	54	38	53.3	40.4	46.9	+ 2.2	41	4	5	1.04	+ 0.31	*	*	*
	Dublin	58	41	54.8	44.5	49.7	+ 3.9	54	0	3	0.41	- 0.17	19.6	+ 2.2	32 + 4
	Parsonstown	55	35	54.1	40.3	47.2	+ 3.4	44	5	5	0.66	- 0.02	21.3	+ 5.8	35 + 9
	Kilkenny	54	36	53.7	40.3	47.0	+ 2.3	42	5	4	1.06	+ 0.38	*	*	*
	Roche's Point	55	42	54.6	45.0	49.8	+ 2.4	55	0	7	1.04	- 0.03	*	*	*
	Valencia	56	40	54.3	46.3	50.3	+ 2.3	58	0	7	2.69	+ 1.39	11.8	- 4.5	19 - 7
CHANNEL ISLANDS	Killarney	56	38	54.4	45.5	50.0	+ 4.0	56	0	6	2.56	+ 1.11	*	*	*
	Foynes	56	37	53.0	43.6	48.3	+ 2.9	44	0	5	1.31	+ 0.35	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	46	56.1	48.1	52.1	+ 1.9	71	0	4	0.50	- 0.33	27.5	—	44 —
	Jersey	59	38	55.3	44.3	49.8	+ 0.8	55	0	5	0.66	- 0.28	32.9	+ 14.6	51 + 23

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

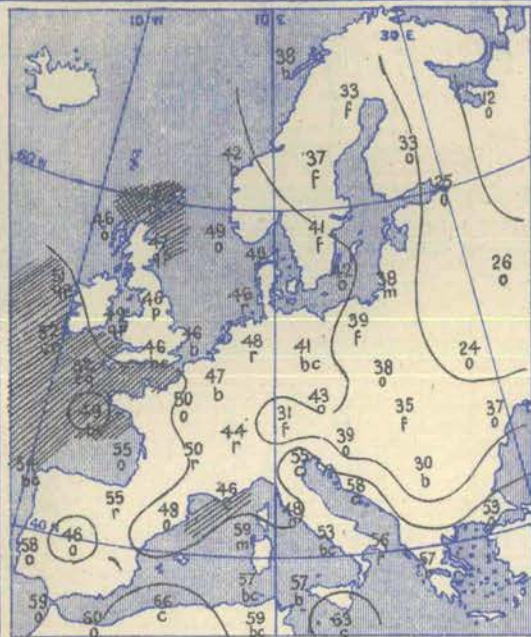
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 9th November.

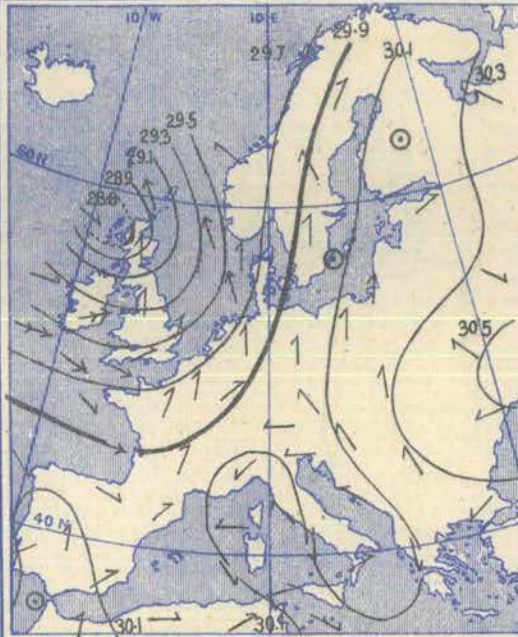
Temperature and Weather.

8 a.m.

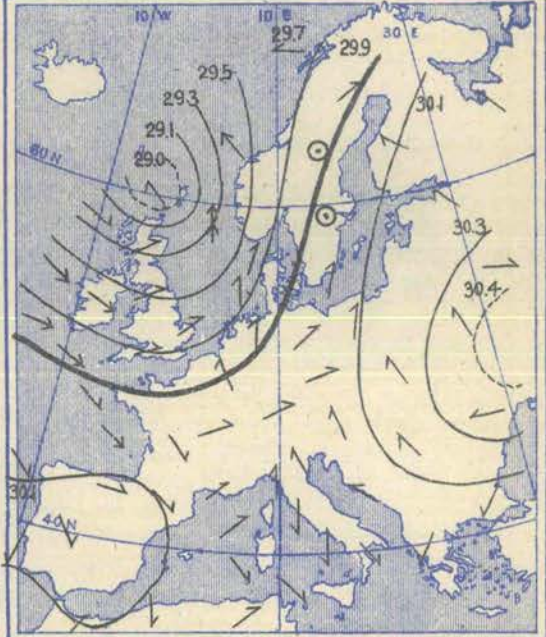


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of England, and also in the west of Norway. Cloudy or dull in nearly all other parts of Europe, with rain or passing showers at many of our own western and northern stations, as well as in Denmark, the south of Norway, and many parts of France and western Germany; fog reported in Sweden. Rain falling later at all but our own eastern and central stations, and also in many parts of the Continent, the amount being as large as 1.4 ins. at Leghorn, and 1.3 ins. at Charleville; lightning seen at Jersey in evening.

Temperature changed very irregularly. Morning readings highest, 66° at Algiers, 63° at Malta and Alicante, and 60° at Oran; above 55° at most of the Mediterranean, Adriatic, and Spanish coast stations, and above 50° in the extreme south of England. Lowest, 12° at Archangel, 19° at Kharkov, 23° at Nicolaieff, and 24° at Kiev; lowest in our Islands, 41° at Nairn. Rising during day to between 50° and 55° in most parts of the United Kingdom, and to 58° at Pembroke; exceeding 60° over southern Europe generally, and reaching 72° at Palermo, and 73° at Malta.

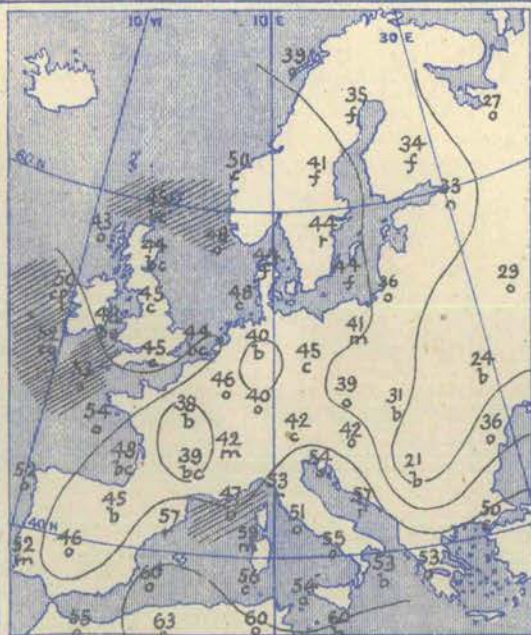
Wind strong to a gale from the Westward in the west and south of our Islands, and moderate to fresh from the same quarter or from North-West in the west of France; South-Westerly over central France, the Netherlands, and the eastern and central parts of England; Southerly or South-Easterly over the east of Scotland and the northern and central parts of the Continent generally. Variable over the greater part of southern Europe. No important change occurring during day.

Barometer highest, 30.5 ins. and upwards in the south of Russia, 30.1 ins. and upwards over eastern and southern Europe generally. Lowest, 29.3 ins. and less in a deep cyclonic system with its centre off the north of Scotland, near Cape Wrath. Depression subsequently moving slowly north-eastwards and beginning to disperse; barometer rising briskly over the United Kingdom generally.

Monday, 10th November.

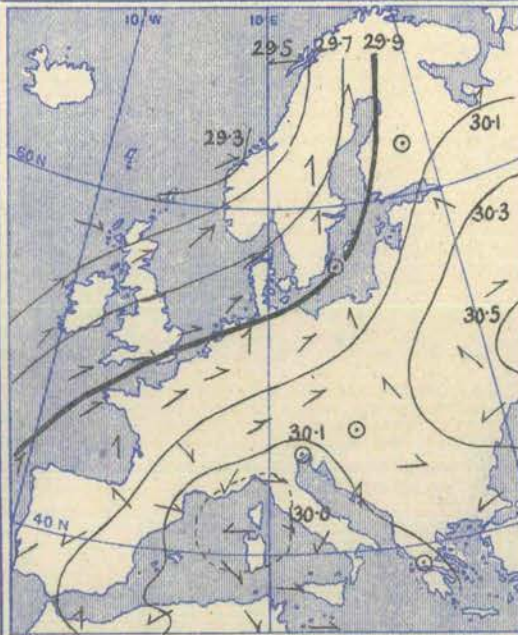
Temperature and Weather.

8 a.m.

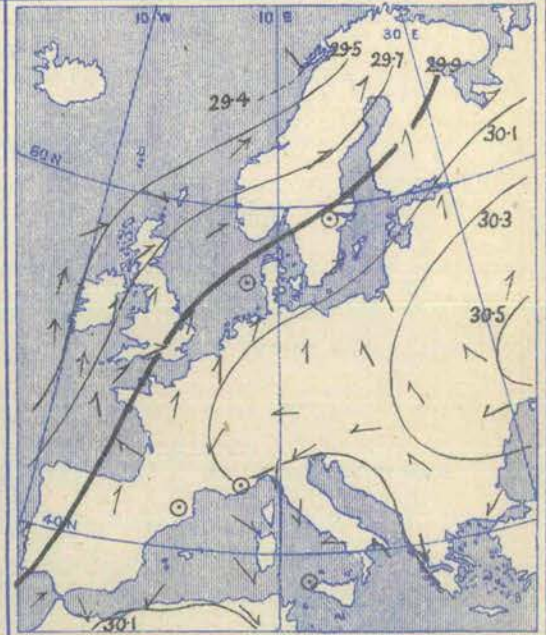


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands and France, but dull in the south of Ireland, and showery at Blacksod Point and Portland Bill. Cloudy or dull in most other parts of Europe, with rain in several isolated places; fog reported over Denmark, Sweden, and Finland. Dull rainy weather setting in later over the western parts of the United Kingdom generally, the amount of rain measured next morning at Valencia being as much as 1.5 ins. Rain falling also in Italy heavily—1.4 ins. at Rome. Temperature fallen in most of the western and southern countries, but risen elsewhere. Morning readings highest, 63° at Alicante and Algiers, and 60° at Palma, Malta, and La Calle; above 55° at most of the Mediterranean and Adriatic stations, and above 50° on our own southern coasts. Lowest, 17° at Kharkov, 21° at Hermannstadt, and 24° at Kiev and Nicolaieff; frost prevailing over nearly the whole of Russia. Rising during day to between 50° and 55° in most parts of the United Kingdom, and to 56° at Scilly and Dungeness; exceeding 60° over southern Europe generally, and reaching 69° at Malta, 70° at San Fernando, and 72° at Palermo.

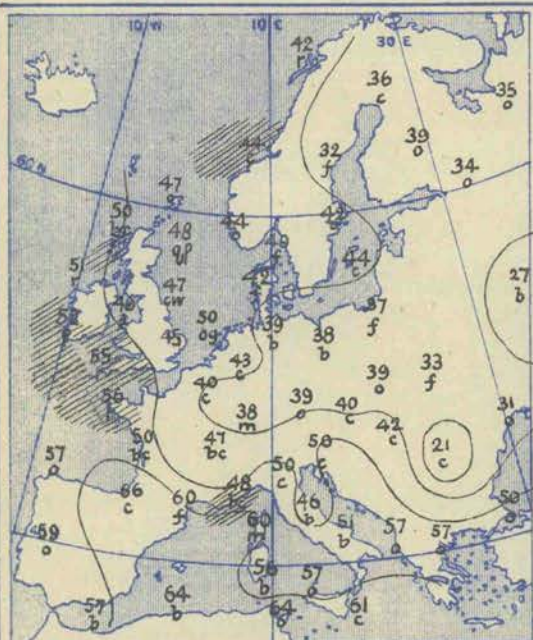
Wind light to moderate from the Southward or South-Westward over western, northern, and central Europe generally, but from the Westward or North-Westward in the north of Scotland. Variable in all the southern countries. Subsequently increasing to a strong breeze from the Southward on our western coasts; no important change occurring elsewhere.

Barometer highest, 30.5 ins. and upwards in the south of Russia, 30.2 ins. and upwards in an anticyclone covering nearly the whole of that country. Lowest, 29.3 ins. and less in a large cyclonic system travelling northwards at some considerable distance to the westward of the Norwegian coasts. New disturbance beginning to approach our own western coasts later, and barometer falling in the western and southern parts of the United Kingdom generally.

Tuesday, 11th November.

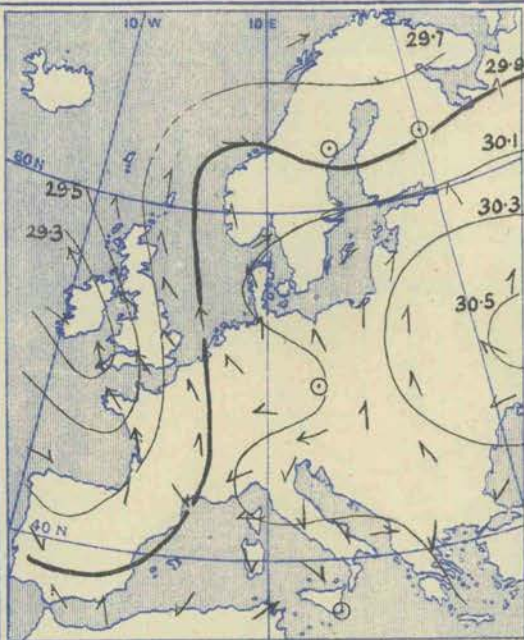
Temperature and Weather.

8 a.m.

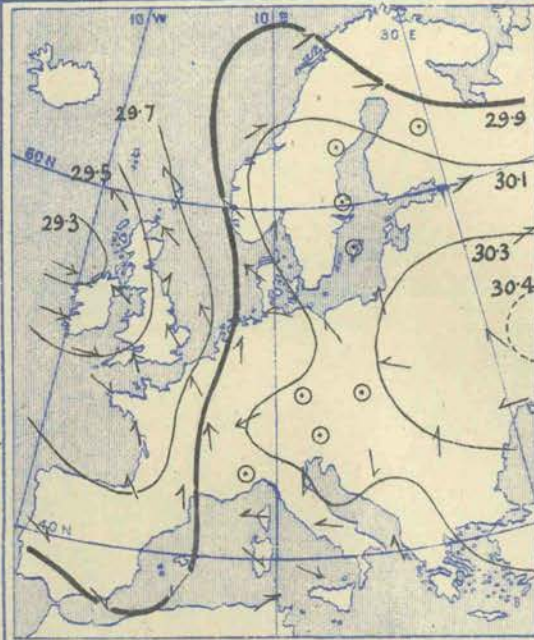


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, but fine in most parts of Scotland, and in various districts of southern Europe and the Mediterranean; foggy in Denmark and at Prague. Rainy at Brittany, Ireland, and the west of England, as well as at Hangö and Pesaro. Rain falling later throughout our Islands, the west of France, at Lyons, and at Nemours—as much as 0.98 in. at the latter station, and 0.95 in. at Donaghadee.

Temperature risen at the majority of our own stations, and those in Spain, France, and Russia, falling in most other regions. Readings at 8 a.m. highest, 60° at Biarritz, 64° at Algiers and Tunis, and 61° at Malta. Lowest, 21° at Hermanstadt and Kharkov, 27° at Moscow, 32° at Hernösand. Lowest in our Islands, 42° at Leith. Rising later to 55°, or higher, at many of our own stations, to 70° at Palermo, 72° at Biarritz, and to 79° at Algiers. Remaining below 50° in most parts of Germany.

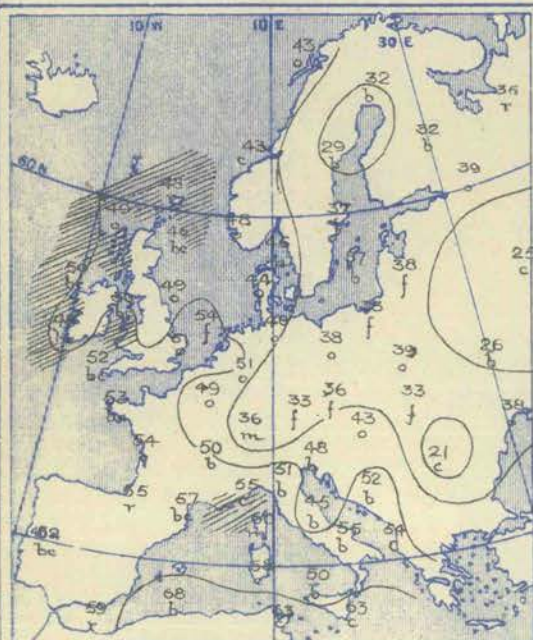
Wind at 8 a.m. North-Westerly in Portugal, Southerly or South-Easterly, and strong to a gale over France and the United Kingdom; Westerly or South-Westerly over northern Europe, light and variable in the South, and light and anticyclonic over the central and eastern regions. Wind veering to Westward, and moderating during day on our south-west coasts, and becoming more Southerly in the south. Increasing in force over Scotland. Very little change over our area as a whole.

Barometer in morning, highest, 30.4 ins. in an anticyclone over the southern half of Russia. Lowest, 29.3 ins. in an elongated disturbance, stretching from the mouth of the English Channel across the south-western half of Ireland; below 29.6 ins. in Lapland. Anticyclone decreasing somewhat in height later, and western cyclonic system moving northwards to the north-west of Ireland. Barometer rising decidedly in the extreme north of Europe.

Wednesday, 12th November.

Temperature and Weather.

8 a.m.

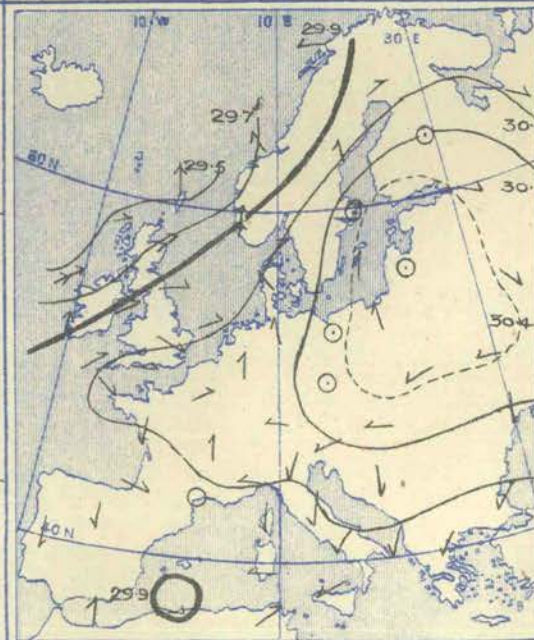


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine in most British districts, Finland, and Italy, fine or foggy over Sweden, and foggy in several parts of central Europe and on the German coast. Cloudy or overcast elsewhere, with rain in the Shetlands, at Biarritz, and in the west of Algeria. Rain experienced later over the extreme west and north of our Islands, many parts of Scandinavia, Denmark, the Netherlands, and also at Lyons and Munich.

Temperature fallen in most places. Readings at 8 a.m. highest, 68° at Algiers, 63° at Malta and Tunis, and above 50° on the southern coasts of Europe generally, as well as over our own southern districts. Lowest, 21° at Hermanstadt, 25° at Moscow, 29° at Hernösand and Uleaborg, and 33° at Munich. Remaining below 40° at some stations in central Europe all day, but rising to 56° and upwards in several parts of our Islands, to 66° at Linoges, Cagliari, and Patras, 70° at Malta, and to 72° at La Calle.

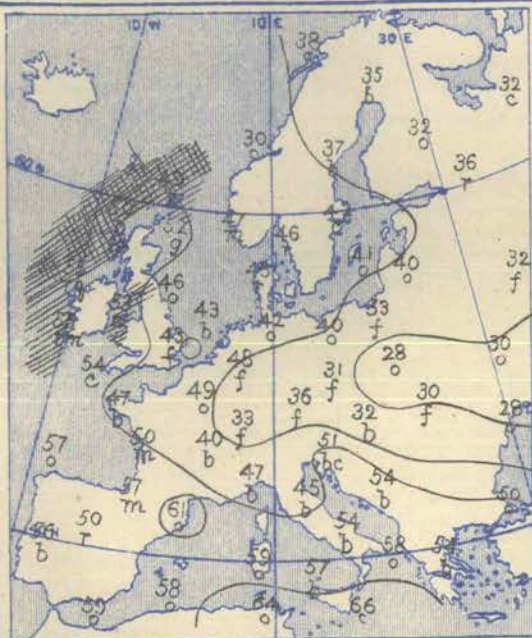
Wind in morning Westerly to Southerly over our Islands, and strong to a moderate gale in the west. South-Easterly to Southerly to the eastward of the North Sea, and blowing a gale at Skudesnaes. Light and mainly North-Easterly over Italy and its neighbourhood, and light and anticyclonic over eastern Europe. Not much change as a whole during day, but Southerly current spreading to Sweden, and wind backing slightly, and increasing in force on the west coast of Ireland.

Barometer risen in most regions, fallen in Scotland, Algeria, and southern Russia. Readings at 8 a.m. highest, 30.2 ins. to 30.4 ins. in a large, but irregularly formed anticyclone covering the greater part of Russia, central Europe, and Sweden. Lowest, 29.3 ins. and less in a disturbance off the Hebrides; 29.9 ins. in the neighbourhood of Archangel. Anticyclone extending farther to the eastward over the central countries later, depression in north-west moving towards Norway, but another system beginning to affect the Irish coast.

Thursday, 13th November.

Temperature and Weather.

8 a.m.

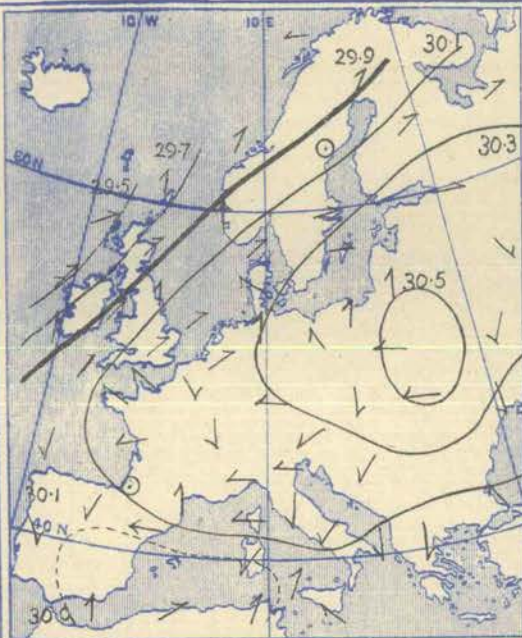


Weather at 8 a.m. very cloudy or dull generally, with fog in some parts of central Europe and over our south-eastern counties, rain at St. Petersburg, Münster, Madrid, and in the west and north of our Islands, and snow or rain in the extreme north of the Gulf of Bothnia. Fine and bright in many parts of Italy. Rain becoming more general later over our western and northern districts, and heavy falls occurring in Algeria and at Constantinople. Considerable snow at Archangel.

Temperature changed irregularly. Readings at 8 a.m. highest, 66° at Malta, 64° at La Calle, above 50° over southern Europe generally and in the west and north of our Islands. Lowest, 28° at Warsaw and on the northern shores of the Black Sea, 31° at Prague, 32° at Archangel, 35° at Bath, and 40° at Lyons. Rising later to 57° at several of our own stations, to above 60° in several parts of France, to 70° at Palermo and Nemours, and to 75° at La Calle. Not exceeding the freezing point at Lemberg.

Barometer and Wind.

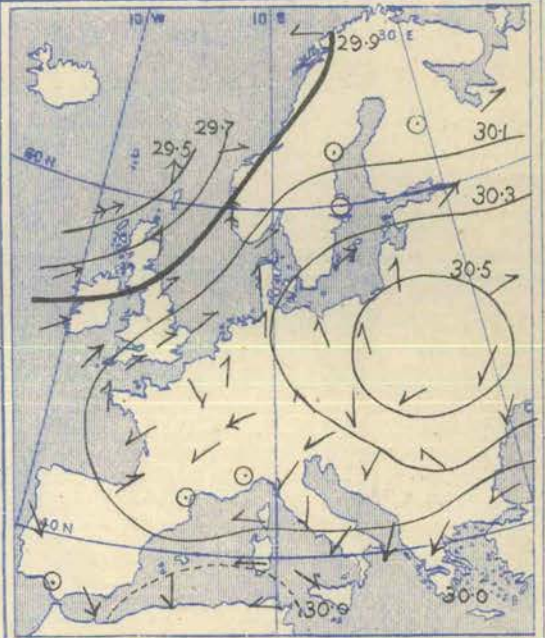
8 a.m.



Wind in morning light and anticyclonic over Russia and central Europe, and South-Westerly or Southerly over all the north-western regions. Strong to a gale over Ireland, the west of England, and in the Hebrides. Moderate Northerly to Easterly breezes prevailing over Italy and the Mediterranean. Wind veering and decreasing in force on our western coasts later, but increasing to a gale in the south-west of Norway.

Barometer readings at 8 a.m. ranging from 30.2 ins. to 30.5 ins. in an anticyclone covering the major portion of Continental Europe and having its centre over Poland, to about 29.5 ins. in a cyclonic disturbance off our north-west coasts. Latter system moving north-eastwards during day, and anticyclone giving way somewhat on its northern side. Pressure recovering briskly in Ireland.

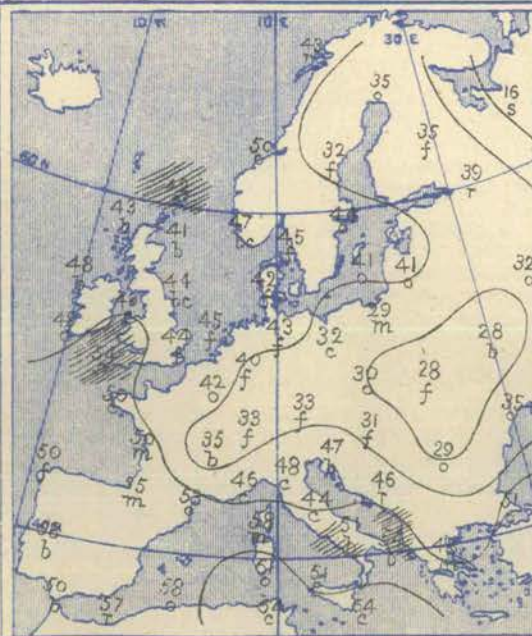
6 p.m.



Friday, 14th November.

Temperature and Weather.

8 a.m.

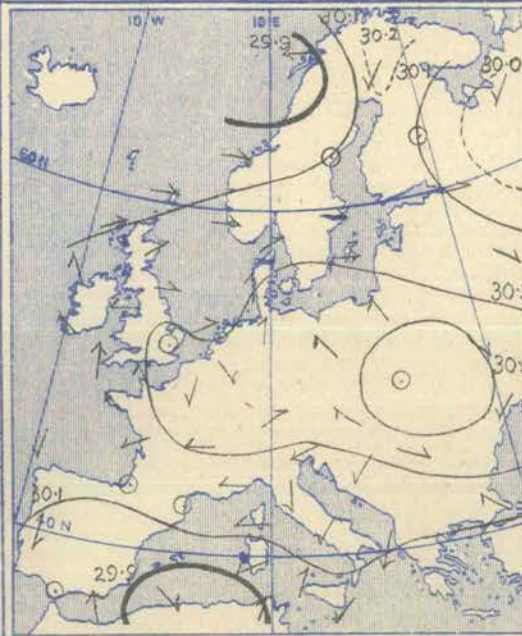


Weather in morning fine over the greater part of the United Kingdom, but with fog at some of our eastern and southern stations. Cloudy or dull over the Continent as a whole, with fog in very many places, and rain at Bodo and St. Petersburg; snow reported at Archangel. Fine at most of the Spanish and Italian stations. Slight rain falling later in the west and extreme north of our Islands, and considerable quantities in Algeria—as much as 1.7 ins. at Oran, and 0.9 in. at Nemours.

Temperature risen over England, but fallen in nearly all other countries—quickly in Ireland and Scotland. Morning readings highest, 66° at Slax, 64° at La Calle and Malta, and 62° at Tunis; above 55° over the central and southern parts of the Mediterranean generally, and above 50° on the south coasts of England. Lowest, 16° at Archangel, 21° at Kharkov, and 26° at Warsaw; below the freezing point in many parts of eastern and central Europe. Rising during day to 55° and upwards at several of our own western and southern stations, and to 58° at Scilly; exceeding 60° over the west and south of France, Spain, and southern Italy, and reaching 60° at Palermo.

Barometer and Wind.

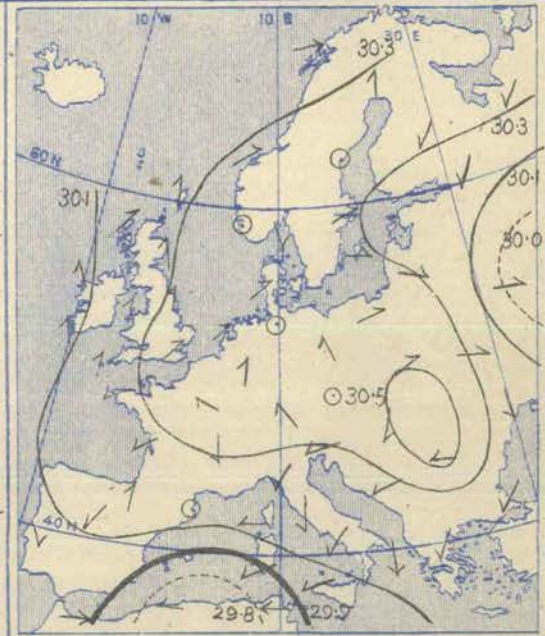
8 a.m.



Wind light from the Eastward in the south of France, and from the South-Eastward or Southward in the south and west of our Islands; South-Westerly or Westerly on the east coasts of Great Britain, and also over Denmark and the south of Scandinavia; Easterly in the extreme northern parts of Russia and Scandinavia, Northerly or North-Easterly in Spain and Italy. Subsequently backing to the Southward on the north-east coasts of Great Britain; no important change occurring elsewhere.

Barometer highest, 30.5 ins. and upwards over the south-west of Russia, 30.1 ins. and upwards in an anticyclone covering all but the extreme northern and southern parts of Europe. Lowest, 29.9 ins. and less in two cyclonic areas—one lying off the north-west of Norway, and the other over Algeria; 30.0 ins. and less in another disturbance over northern Russia. Norwegian depression subsequently moving away to the northward; disturbance over northern Russia travelling northwards, but new depression approaching over our western coasts in evening.

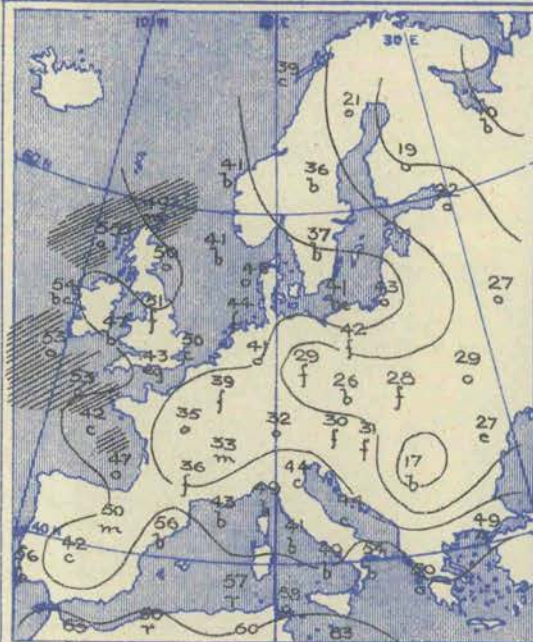
6 p.m.



Saturday, 15th November,

Temperature and Weather.

8 a.m.



WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 47.]
Fourth Series.

WEEK ENDING SATURDAY, NOVEMBER 22ND, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 278.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest	Averages of			Above or below the Mean for the Week.	For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	30	47.3	38.5	43.0	2 above	Day-deg. 22	Day-deg. + 6	Day-deg. 10	Day-deg. - 8	Day-deg. 1839	Day-deg. - 141	Day-deg. 692	Day-deg. + 22
	1. SCOTLAND, EAST	49	25	44.5	34.9	39.7	1 below	7	- 10	27	+ 4	2002	- 330	791	+ 51
	2. ENGLAND, N.E.	52	25	43.9	36.8	40.3	2 below	5	- 16	19	+ 3	2417*	- 142	541	- 39
	3. ENGLAND, EAST	47	26	40.9	33.0	37.0	6 below	0	- 24	35	+ 17	2831	- 126	557	- 80
	4. MIDLAND COUNTIES	47	23	40.1	31.6	35.9	6 below	0	- 23	43	+ 23	2685	- 207	569	- 95
	5. ENGLAND, SOUTH	51	25	40.4	32.5	36.4	8 below	0	- 32	39	+ 27	3014	- 242	397	- 66
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	30	45.2	37.0	41.1	2 below	9	- 13	20	+ 7	2353	- 135	507	+ 6
	7. ENGLAND, N.W.	52	26	42.9	34.0	38.5	5 below	3	- 22	29	+ 18	2586	- 155	450	- 14
	8. ENGLAND, S.W.	53	27	42.8	35.1	39.0	6 below	2	- 33	25	+ 17	2966	- 95	349	- 4
	9. IRELAND, NORTH	53	32	45.7	39.0	42.4	1 below	15	- 10	8	- 4	2464	- 171	347	- 81
	10. IRELAND, SOUTH	56	24	48.4	40.8	44.6	0 (average)	23	- 11	3	- 7	2996	- 14	243	- 72
	— CHANNEL ISLANDS	55	32	45.9	38.8	42.9	6 below	20	- 32	9	+ 7	3571	- 34	108	- 20

DISTRICTS. (See p. 278.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901.			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	10ths of in. 2	10ths of in. 11 less	226	+ 20	40.3	- 4.0	18	+ 11	34	+ 20	1076	- 17	26	- 1
	1. SCOTLAND, EAST	1	1	6 less	190	+ 14	22.0	- 6.2	13	+ 2	25	+ 5	1105	- 153	27	- 4
	2. ENGLAND, N.E.	0	less than half	6 less	162	- 1	18.7	- 4.1	20	+ 14	35	+ 24	1188*	- 53	29	- 1
	3. ENGLAND, EAST	0	less than half	6 less	156	- 8	19.4	- 3.2	22	+ 7	37	+ 11	1515*	- 68	35	- 2
	4. MIDLAND COUNTIES	0	less than half	6 less	158	+ 1	21.2	- 3.9	16	+ 6	28	+ 10	1252	- 44	32	- 1
	5. ENGLAND, SOUTH	1	1	6 less	156	+ 3	21.9	- 3.4	16	+ 2	27	+ 3	1527	- 106	36	- 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	4	9 less	202	+ 19	43.7	- 1.0	6	- 3	12	- 6	1207	- 97	20	- 2
	7. ENGLAND, N.W.	1	1	7 less	187	+ 15	24.6	- 6.7	22	+ 14	38	+ 24	1408	+ 94	35	+ 2
	8. ENGLAND, S.W.	2	4	6 less	171	- 6	27.6	- 8.1	10	- 4	16	- 7	1485	- 109	37	- 3
	9. IRELAND, NORTH	3	4	4 less	222	+ 20	31.9	- 0.1	13	0	22	0	1191	- 31	29	- 1
	10. IRELAND, SOUTH	3	10	0 (average)	184	- 1	31.2	- 4.9	13	- 2	23	- 3	1350	- 48	33	- 1
	— CHANNEL ISLANDS	2	2	7 less	183	+ 5	24.4	- 4.7	15	0	25	0	1678	- 170	41	- 4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this week was mainly fair over the Kingdom as a whole, although on our extreme western and south-western coasts much cloud and gloom prevailed at times, and rain fell occasionally. Thunder, lightning, and hail occurred on Saturday in the extreme south-west of Wales.

Temperature decreased very quickly soon after the commencement of the week, and became very low for the time of year over England. In England S. the deficit in the mean value from the average was as much as 8°, and in the Channel Islands, England S.W., the Midland Counties, and England E., 6°. In Ireland and Scotland there was very little or no deficit, and in Scotland N. the mean value was even slightly above the average. The highest of the maxima were recorded, as a general rule, on Sunday, and ranged from 56° in Ireland S., and 55° in the Channel Islands and Scotland N., to 47° over central and eastern England. On Wednesday and Thursday the maxima over the more south-eastern and southern districts of England were much below 40°. The lowest of the minima, registered during the latter half of the period, ranged from 23° in the Midland Counties, and 25° in several of the other "wheat-producing" districts, to 32° in Ireland N. and the Channel Islands.

Rainfall was very slight in most districts, but just equalled the mean amount in Ireland S. In many parts of England the fall was scarcely appreciable.

Bright Sunshine exceeded the mean over the Kingdom as a whole, but only just equalled it in the Channel Islands and Scotland N., and was in defect in Scotland W., England S.W., and Ireland S. The percentage of the possible duration varied from 33 in England N.W., 37 in England E., to 16 in England S.W., and to 12 in Scotland W.

Barometer and Wind.—A large anticyclone (in which the barometer on Thursday stood at 30.97 ins. in Sweden and North Russia) has existed throughout the period. At first it lay over the extreme north generally, but gradually decreased in height and moved westwards and southwards; it lay at the end of the week over Denmark and Germany. The depressions from the Atlantic at first lay off our south-west coasts, and produced strong South-Easterly to Easterly winds or gales in the south and south-west; later on they affected our western and north-western districts, and caused strong South-Easterly to Southerly winds, with an occasional gale, on our extreme west and south-west coasts.

DISTRICTS.	NAMES OF STATIONS.	Temperature.							Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.							Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).							
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	51	39	46.9	42.6	44.8	+ 3.0	20	0	1	0.02	- 0.95	*	*	*
	Stornoway	52	30	50.0	39.0	44.5	+ 3.0	30	8	3	0.26	- 0.97	23.6	+ 13.9	44 + 27
	Wick	49	40	46.6	42.1	44.4	+ 3.2	17	0	1	0.01	- 0.66	*	*	*
	Lairg	48	30	46.3	34.0	40.6	+ 2.3	12	28	1	0.18	- 0.66	*	*	*
	Glencarron	54	32	47.0	34.5	40.8	+ 0.6	14	30	1	0.21	- 2.04	*	*	*
	Fort Augustus	55	30	47.5	35.9	41.7	+ 0.5	15	25	1	0.13	- 0.91	18.1	+ 14.2	34 + 27
1. SCOTLAND, E.	Fort William	55	39	47.1	40.6	43.9	+ 1.8	19	4	2	0.27	- 1.60	20.9	+ 15.2	39 + 29
	Nairn	48	25	45.1	29.9	37.5	- 2.9	9	45	1	0.13	- 0.36	*	*	*
	Aberdeen	47	41	45.6	42.7	44.2	+ 2.8	15	0	1	0.12	- 0.59	8.2	- 3.4	16 - 6
	Braemar	48	27	42.2	33.2	37.7	0.0	1	31	1	0.02	- 0.83	*	*	*
	Ochertyre	49	25	44.4	33.4	38.9	- 1.5	7	32	2	0.21	- 0.80	*	*	*
	Leith	49	30	46.3	36.7	41.5	- 1.0	12	22	1	0.05	- 0.42	*	*	*
2. ENGLAND, N.E.	Marchmont	47	27	43.6	33.6	38.6	- 1.4	4	31	0	0.00	- 0.76	23.3	+ 12.0	43 + 22
	Alnwick Castle	47	25	43.7	36.6	40.2	- 1.7	5	20	0	0.00	- 0.74	*	*	*
	Durham	48	29	42.3	35.5	38.9	- 2.1	1	23	0	0.00	- 0.60	19.5	+ 8.0	36 + 15
	Shields	48	33	45.1	40.3	42.7	0.0	12	5	1	0.03	- 0.50	*	*	*
	Scarborough	52	28	45.7	37.1	41.4	- 1.5	10	20	0	0.00	- 0.63	23.0	—	40 —
	Spurn Head	48	33	44.9	38.6	41.8	- 1.7	8	14	0	0.00	- 0.50	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	43	25	41.4	32.6	37.0	- 4.2	0	35	0	0.00	- 0.44	22.6	—	39 —
	Hillington	45	26	40.2	31.9	36.1	- 5.6	0	41	0	0.01	- 0.59	23.0	+ 10.8	40 + 19
	Yarmouth	46	32	43.0	36.1	39.6	- 3.6	3	22	0	0.00	- 0.64	*	*	*
	Geldeston	46	30	41.0	33.9	37.5	- 5.5	0	32	0	0.00	- 0.57	25.1	+ 11.4	43 + 19
	Cambridge	47	26	40.5	29.3	34.9	- 7.1	0	50	0	0.00	- 0.44	15.5	+ 2.1	26 + 4
	Felixstowe	46	32	41.1	36.1	38.6	- 4.4	0	24	0	0.00	—	26.8†	—	45† —
4. MIDLAND COUNTIES	Rothamsted	44	27	39.4	30.6	35.0	- 6.7	0	49	1	0.02	- 0.60	15.9	+ 2.1	27 + 4
	Harrogate	45	27	41.8	32.2	37.0	- 4.3	0	35	1	0.01	- 0.65	25.3	—	44 —
	Bawtry (Hesley Hall)	47	23	43.0	29.9	36.5	- 5.1	3	43	0	0.00	- 0.46	*	*	*
	Loughborough	45	26	41.3	32.1	36.7	- 5.5	0	37	0	0.00	- 0.49	*	*	*
	Colly Weston (Stamford)	45	24	43.0	31.0	37.0	- 4.8	3	39	0	0.00	- 0.55	*	*	*
	Cheadle	46	29	38.9	31.8	35.4	- 5.7	0	46	0	0.00	- 0.68	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	47	29	39.1	32.3	35.7	- 6.5	0	44	0	0.00	- 0.54	8.3	—	14 —
	Churchstoke	46	29	38.0	31.2	34.6	- 7.1	0	52	1	0.03	- 0.72	10.0	- 1.0	17 - 2
	Hereford	42	26	38.4	32.3	35.4	- 7.4	0	46	1	0.05	- 0.52	*	*	*
	Cirencester	42	26	37.8	31.0	34.4	- 7.1	0	53	0	0.00	- 0.68	14.5	+ 2.3	25 + 4
	Oxford	45	28	39.9	31.9	35.9	- 7.0	0	43	0	0.00	- 0.53	15.0	+ 2.5	25 + 4
	London	46	29	41.0	33.0	37.0	- 6.5	0	35	1	0.02	- 0.50	8.5†	+ 1.0†	14† + 2†
6. SCOTLAND, W.	Swarraton (Alresford)	46	25	39.1	30.4	34.8	- 7.3	0	50	1	0.10	- 0.61	*	*	*
	Dungeness	49	23	41.1	32.7	36.9	- 8.0	0	36	1	0.08	- 0.50	17.0	—	28 —
	Hastings (St. Leonards)	44	27	38.7	32.2	35.5	- 9.2	0	46	2	0.06	- 0.68	16.9	+ 1.5	28 + 3
	Southampton	47	29	41.6	33.2	37.4	- 7.1	0	32	1	0.09	- 0.62	18.6	+ 5.3	31 + 9
	Portland Bill	51	30	43.7	34.9	39.3	- 6.9	5	26	1	0.19	—	*	*	*
	Shaftesbury	44	28	37.5	30.8	34.2	- 7.5	0	55	1	0.10	- 0.70	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	54	33	47.3	37.9	42.6	- 0.5	21	11	1	0.26	- 1.69	*	*	*
	Glasgow	50	32	43.4	36.3	39.9	- 1.8	4	21	1	0.26	- 0.61	2.1	- 3.6	4 - 7
	Cally	50	30	45.2	33.5	39.4	- 2.4	9	32	2	0.51	- 0.73	*	*	*
	Douglas (Isle of Man)	49	36	45.0	40.1	42.6	- 1.7	12	5	2	0.63	- 0.44	10.6	- 2.7	19 - 5
	Newton Reigny	45	27	41.4	32.3	36.9	- 2.8	0	36	1	0.03	—	29.8	—	54 —
	Stonyhurst	48	29	41.1	34.3	37.7	- 4.3	0	30	1	0.11	- 0.02	24.2	+ 14.8	43 + 26
8. ENGLAND, S.W.	Blackpool	49	27	44.4	32.5	38.5	- 4.5	7	35	2	0.16	- 0.61	22.6	+ 13.2	49 + 23
	Manchester (Prestwich)	48	26	41.5	33.5	37.5	- 4.6	0	32	1	0.05	- 0.75	19.7	—	35 —
	Liverpool Obsy. (Bidston)	45	31	41.3	34.9	38.1	- 5.5	0	27	1	0.09	- 0.54	15.8	—	27 —
	Chester	52	30	47.1	34.9	41.0	- 3.0	14	28	1	0.05	—	*	*	*
	Llandudno	47	32	43.1	34.8	39.0	- 6.2	3	26	2	0.16	- 0.60	25.2	+ 13.3	43 + 24
	Holyhead	47	32	43.4	34.6	39.0	- 7.2	4	27	2	0.23	- 0.70	*	*	*
9. IRELAND, N.	Llandoverly	49	28	42.7	32.9	37.8	- 4.8	2	32	2	0.23	- 0.92	*	*	*
	Pembroke	52	30	46.7	37.4	42.1	- 4.9	20	13	2	0.60	- 0.30	11.1	- 2.5	19 - 4
	Clifton	46	29	39.9	33.4	36.7	- 6.6	0	37	1	0.07	- 0.69	*	*	*
	Bath	44	29	39.7	32.9	36.3	- 7.7	0	40	1	0.14	- 0.54	10.5	—	18 —
	Arlington (N. Devon)	46	29	41.0	33.0	37.0	- 6.6	0	35	2	0.55	- 0.30	*	*	*
	Cullompton	49	27	42.4	34.6	38.5	- 4.8	1	26	2	0.25	- 0.60	9.2	- 2.3	15 - 4
10. IRELAND, S.	Falmouth	53	32	45.5	40.1	42.8	- 4.5	14	5	2	0.67	- 0.56	4.2	- 11.5	7 - 19
	Plymouth	53	29	44.8	36.3	40.6	- 5.7	8	22	2	0.30	- 0.54	12.8	- 1.0	21 - 2
	Malin Head	43	35	45.0	38.9	42.0	- 2.4	8	9	2	0.10	- 0.63	*	*	*
	Edenfel (Omagh)	49	32	43.9	36.9	40.4	- 0.9	5	19	3	0.58	- 0.25	*	*	*
	Blacksod Point	52	35	46.9	41.6	44.3	- 1.0	18	1	3	0.61	- 0.63	*	*	*
	Markree Castle	50	33	45.0	37.5	41.3	- 1.3	8	18	3	0.76	- 0.17	13.6	+ 1.3	24 + 2
CHANNEL ISLANDS	Armagh	50	36	45.9	38.8	42.4	+ 0.2	16	9	3	0.17	- 0.50	11.3	- 1.4	20 - 3
	Donaghadee	53	38	47.6	40.3	44.0	+ 0.2	21	5	2	0.39	- 0.33	*	*	*
	Dublin	52	36	47.0	40.7	43.9	- 0.9	19	4	2	0.27	- 0.23	16.3	+ 0.6	28 + 1
	Parsonstown	50	26	45.6	36.7	41.2	- 1.5	10	21	3	0.53	- 0.14	16.2	+ 2.1	28 + 4
	Kilkenny	50	24	45.9	36.3	41.1	- 2.5	11	23	3	0.39	- 0.28	*	*	*
	Roche's Point	54	37	50.1	44.7	47.4	+ 0.9	38	0	3	1.16	+ 0.06	*	*	*
CHANNEL ISLANDS	Valencia	53	39	50.1	44.6	47.4	+ 0.2	38	0	4	1.32	- 0.01	7.0	- 7.6	12 - 13
	Killarney	56	33	51.5	41.6	46.6	+ 1.3	34	1	3	2.04	+ 0.55	*	*	*
CHANNEL ISLANDS	Foyes	—	—	—	—	—	—	—	—	—	—	—	*	*	*
	Scilly (St. Mary's)	55	36	50.6	42.1	46.4	- 3.0	31	0	2	0.37	- 0.48	14.9	—	24 —
	Jersey	49	32	43.1	35.4	39.3	- 8.4	3	24	1	0.07	- 0.87	19.9	+ 3.2	32 + 5

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Raucely; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 16th November.

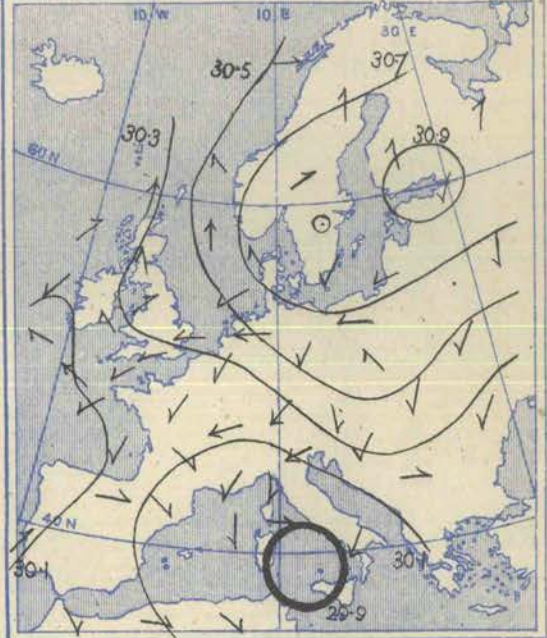
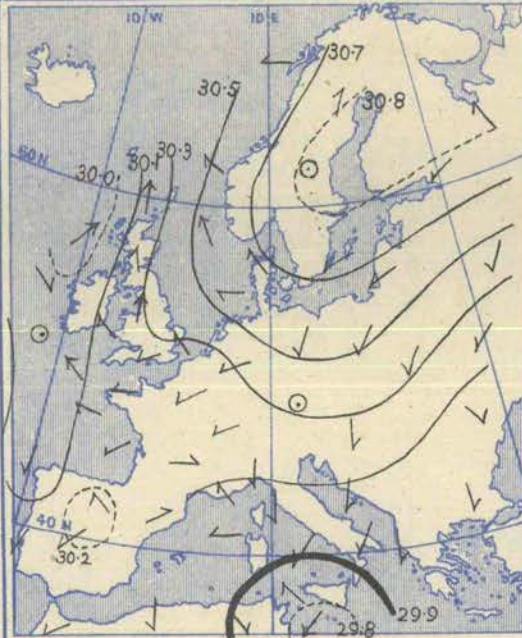
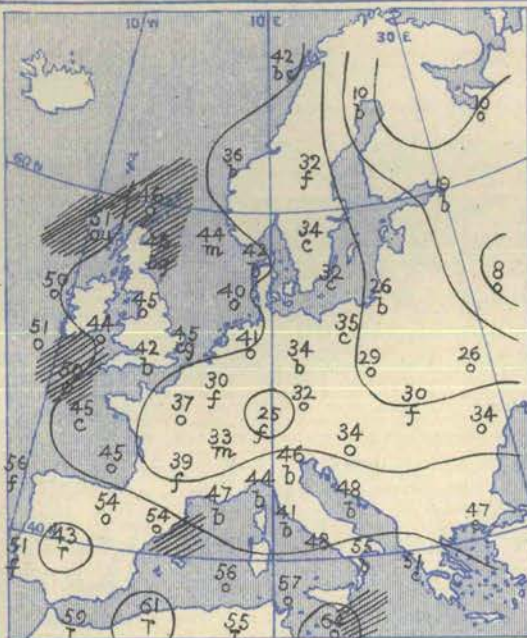
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair over northern and central Europe—dull in some places, clear in others—gloomy over the British Islands and western Europe, with rain at some of the Irish and western Scotch stations. Rain later in Ireland and Scotland (0.08 in.) at Roche's Point, large quantities on the southern side of the Mediterranean, fog in many parts of central Europe.

Temperature in morning highest, 64° at Nemours, 61° at Algiers, 60° at Palermo and Bilbao, 59° to 50° at the stations in southern Europe generally; 52° to 50° on the west and south coasts of Ireland. Lowest, 8° at Moscow, and below 20° over the major part of Russia; below 30° over eastern Germany. Exceeding 50° later at several of our western stations. Touching 61° at Nice, 78° at Sanguinaire, 72° at Funchal and Oporto, 54° at Trieste, 32° at Cracow.

Wind light and anticyclonic over the central and northern parts of Europe, North-Easterly to Easterly over France and south Germany, Easterly to Southerly over the United Kingdom, and blowing strongly in south Germany and at Sunburgh Head. Varying greatly on our extreme western coasts. Lulling considerably later in south Germany and the south-east of France. Continuing very variable in the far west of our Islands.

Barometer highest, 30.9 ins. and more over the south of Finland, and exceeding 30.5 ins. over all the northern countries of Europe. Lowest, (1) below 30.1 ins. off the south-west of our Islands and the west of Portugal, and (2) 29.9 ins. and less in a depression over Sicily and the south of Italy. Falling later all over southern Europe, rising in the north. Shallow "V"-shaped depressions appearing in the far west, and a deepening depression near Malta.

Monday, 17th November.

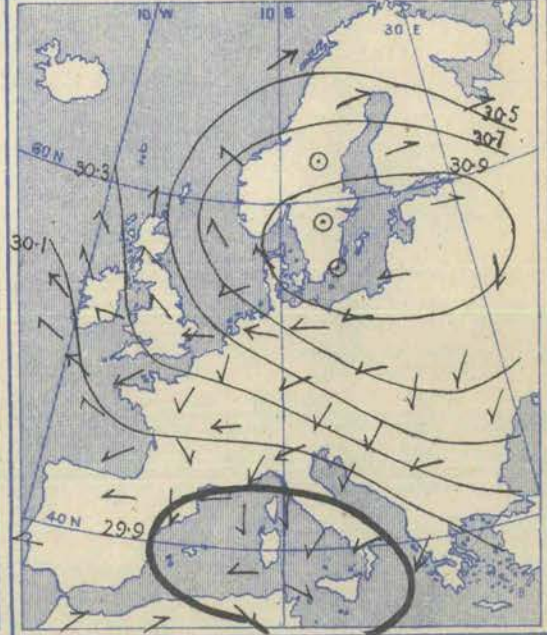
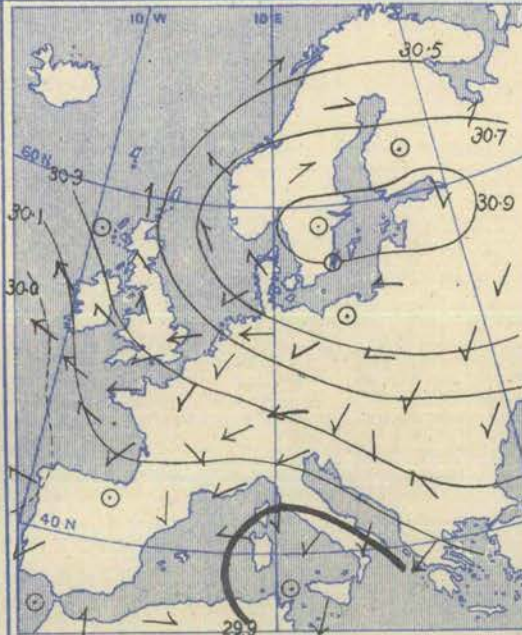
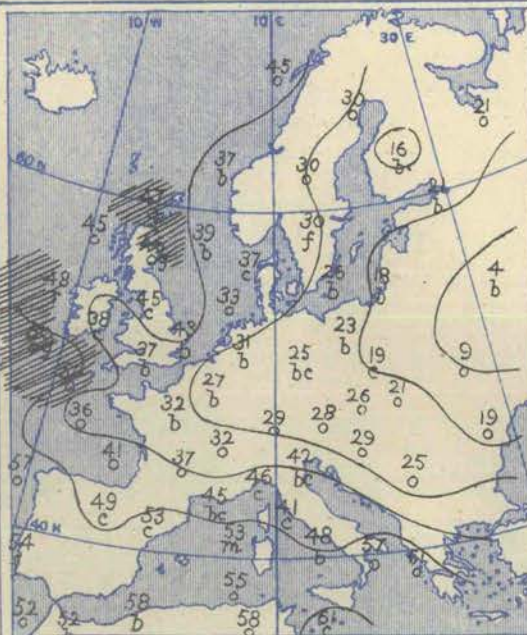
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over the greater part of the United Kingdom and the northern half of Europe as a whole, cloudy or dull elsewhere. Rain falling later in Italy and a few other southern regions—as much as 1.06 ins. at Pesaro—but weather continuing fine over the more northern countries.

Temperature fallen decidedly in nearly all districts. Readings at 8 a.m. highest, 61° at Malta, 58° at Algiers, and 57° at Brindisi and Corunna. Lowest, 3° at Kharkov, 4° at Moscow, 16° at Kuopio and Helsingfors, some degrees below freezing point over the central countries, and 37° at Christiansund. Rising during day to 52° in the south of Ireland and at Biarritz, 59° at Nice, 67° at Palermo, 70° at Algiers, and to 72° at La Calle. Remaining below 32° over Germany, the Netherlands, Russia, and many parts of Austria.

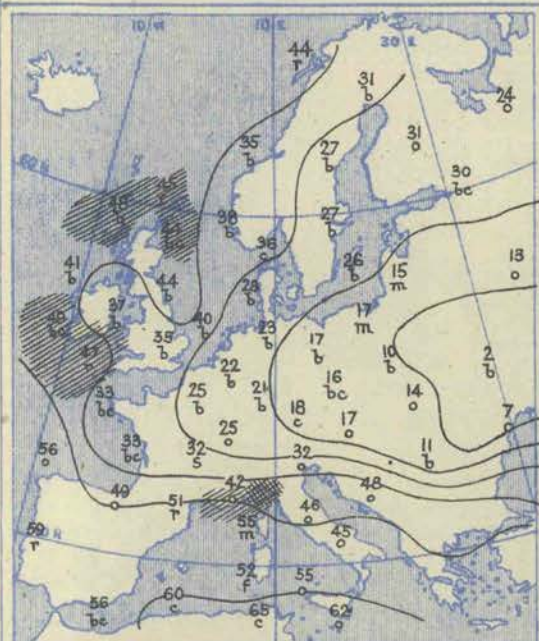
Wind in morning Easterly in most regions, but drawing into North-East, North, or North-West over the western parts of the Mediterranean, and into South-East over our own western and northern coasts. South-Westerly to Westerly over the extreme north of Europe. Moderate or light in force generally, but strong at Athens, Trieste, Munich, and Belfort, and on our west and south-west coasts. No great change later, but force increasing gradually over our southern and western districts, and to a fresh gale at Athens.

Barometer risen except over southern and in the extreme north of Europe. Readings ranging at 8 a.m. from 30.97 ins. at St. Petersburg and Helsingfors, to less than 30.0 ins. off the south-west of Ireland, and to below 29.9 ins. over the south of Italy. Anticyclone moving slightly southwards, and extending both in an easterly and westerly direction during day. Cyclonic system in extreme south becoming less ill-defined. Gradients increasing slowly generally.

Tuesday, 18th November.

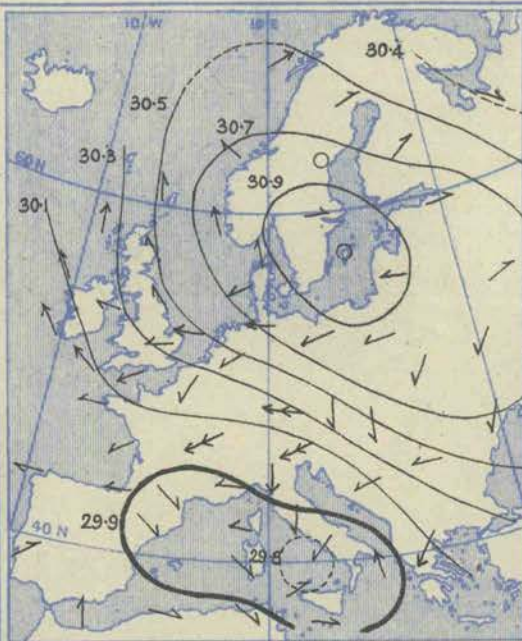
Temperature and Weather.

8 a.m.

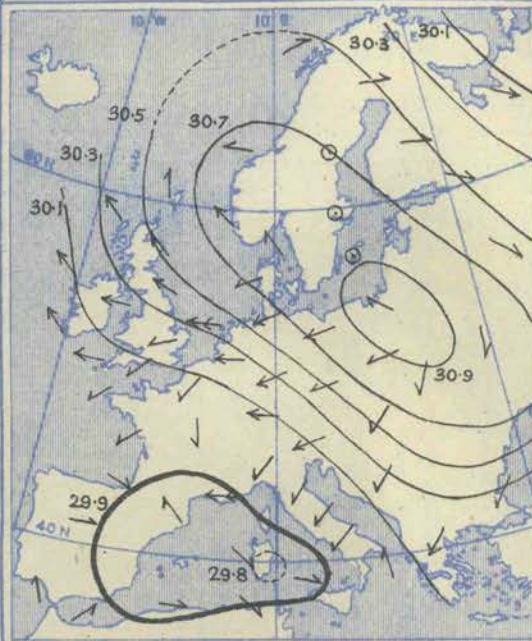


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western, northern, and central Europe generally, but rainy at Selly, and also at Bodø. Dull in all the southern countries, with rain at Barcelona and Lisbon, and also at Pesaro and Brindisi; snow reported at Lyons. Snow falling later in many parts of central France, and considerable quantities of rain in the south of that country and in Italy—as much as 2.4 ins. at Brindisi, and 1.5 ins. at Pesaro.

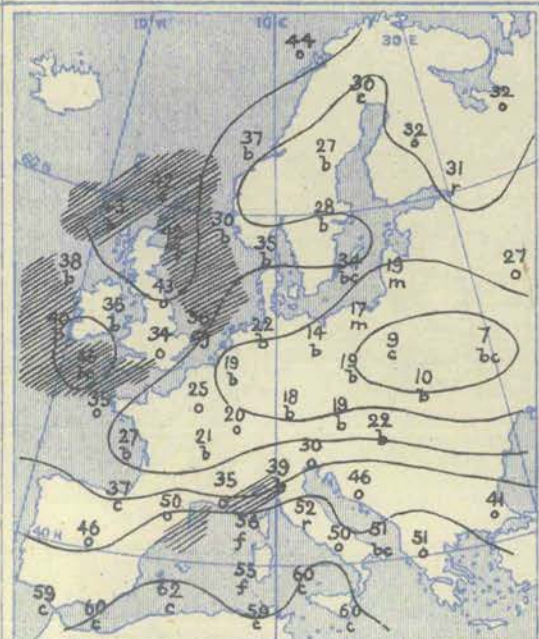
Temperature fallen generally, but risen over northern and central Russia. Morning readings highest, 65° at La Calle, 62° at Malta, 60° at Algiers, and 59° at Lisbon. Lowest, 2° to 7° over southern Russia, 10° at Warsaw, and 11° at Hermanstadt; below 20° in many parts of Germany and Austria, and below the freezing point over northern and central Europe generally, as well as in the central parts of Great Britain, but as high as 44° at Bodø, and 48° at Stornoway. Hard frost continuing all day over the eastern and central parts of the Continent, and thermometer rising very little above 40° over England; frost occurring in many parts of the United Kingdom at night.

Wind Easterly or North-Easterly over England, France, and the whole of eastern and central Europe; very strong in force on the English coasts, and blowing a gale at Belfort, Munich, and Trieste. Strong from the South-Eastward on our western coasts, and from the same quarter or from South in the north of Scotland and the west of Norway; South-Westerly or Westerly over the northern parts of Russia and Scandinavia. Northerly in the north of Italy, but Southerly over southern Italy and Greece; rather variable over the Spanish Peninsula. Subsequently increasing to a gale from the Eastward on the Norfolk coast. Barometer highest, 30.9 ins. and upwards over the whole of western Russia, the Baltic, and the south of Sweden, 30.3 ins. and upwards in an anticyclone covering the whole of northern and central Europe and extending westwards over Great Britain. Lowest, 29.8 ins. and less in a large cyclonic area with its centre midway between Naples and Palermo, 30.0 ins. and less in another area to the south-westward of Ireland. Anticyclone becoming somewhat reduced in height later, but general distribution remaining unchanged.

Wednesday, 19th November.

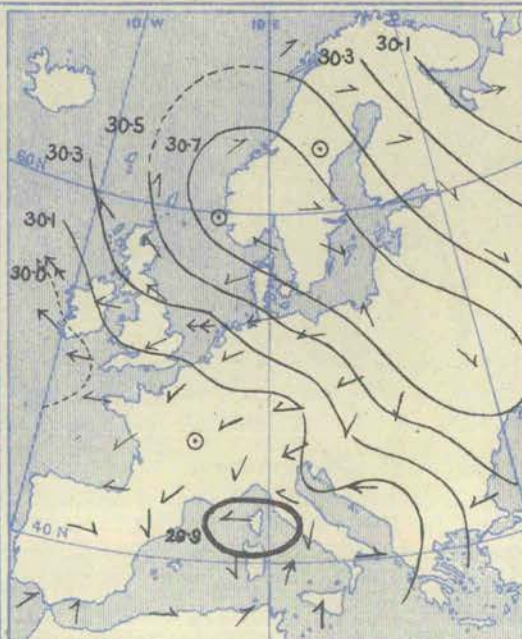
Temperature and Weather.

8 a.m.

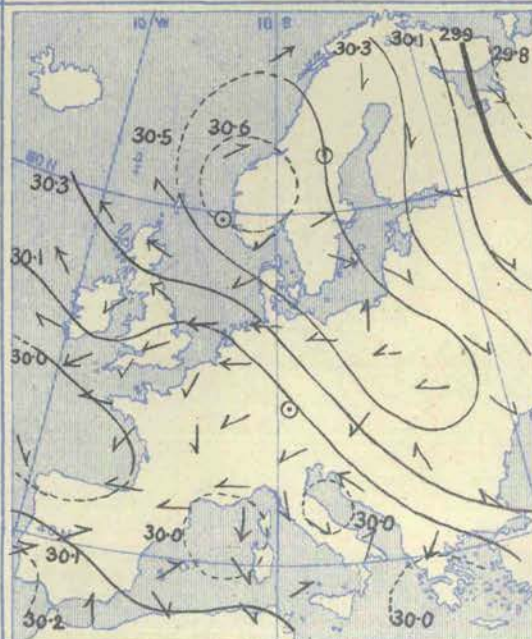


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the west and north of our Islands, and also over the greater part of northern and central Europe, but dull over the northern and central parts of Russia, with rain at St. Petersburg. Dull in the south of England, and also over the greater part of France and southern Europe, with rain at Pesaro, Rome, and Athens, and snow at several of the French stations. Considerable quantities of rain falling later over Italy, the south of France, and the neighbouring parts of Spain and Austria.

Temperature fallen in most of the western, central, and southern countries, but changed irregularly elsewhere. Morning readings highest, 62° at Algiers, 60° at Palermo, Malta, and Oran; above 55° over the central and southern parts of the Mediterranean. Lowest, 7° at Kiev, 9° at Warsaw, and 10° at Kharkov, Lemberg and Breslau; below 20° over Germany, Austria, and Belgium, and below the freezing point over northern, eastern, and central Europe generally, as well as in the extreme south-east of England. Hard frost continuing all day over the central parts of the Continent, and thermometer failing to reach 35° even at some places in the south of England.

Wind light to moderate from the Eastward or North-Eastward over Denmark, Germany, Austria and the north of France, and strong from the same quarters over England and the Netherlands, with a gale at Yarmouth; strong to a gale from the South-Eastward in Ireland, and from the Southward in the north of Scotland; South-Westerly in the west of Norway and Westerly or North-Westerly over northern and central Russia. Westerly or South-Westerly in Spain; rather variable over the southern parts of France and Italy. Wind moderating later in most parts of the United Kingdom.

Barometer highest, 30.7 ins. and upwards over the south-west of Russia, the Baltic, and the southern parts of Scandinavia, 30.3 ins. and upwards in an anticyclone covering the whole of northern and central Russia, and extending westwards over Scotland. Lowest, 29.9 ins. and less in a shallow cyclonic system over Corsica and Sardinia; 30.3 ins. and less in another disturbance lying off our own extreme south-west coasts. Anticyclone giving way slowly during day; disturbance off our south-west coasts moving southwards, and partially filling up.

Thursday, 20th November.

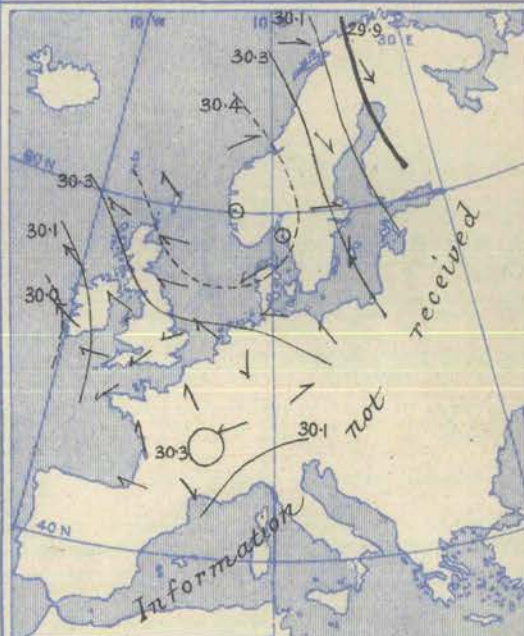
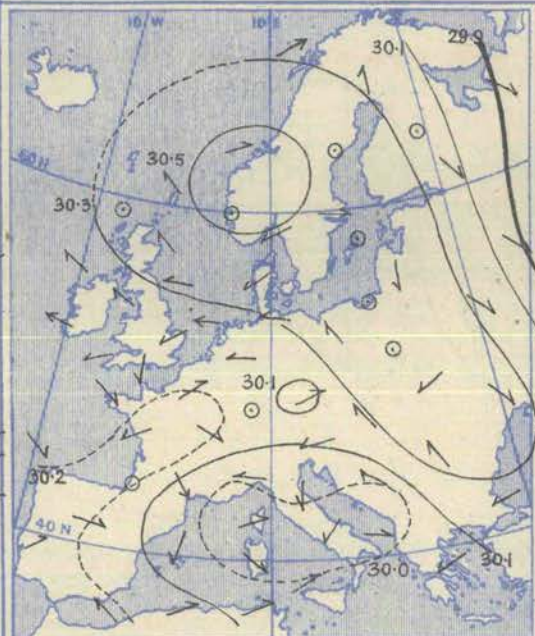
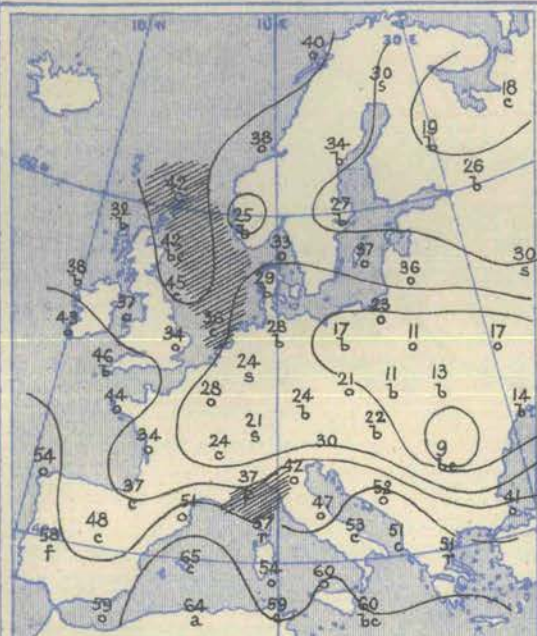
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the south of our Islands and the greater part of the Continent, rain falling in Greece and at Pesaro, and snow at Brussels, Belfort, and Turin, as well as at Haparanda. Fine over the northern parts of the United Kingdom, and also in Sweden, Denmark, and northern and eastern Germany. Rain and snow falling later in the east and south of France, and slight rain also in the north-west of Norway.

Temperature risen somewhat in most places, but fallen over the central parts of Ireland and Scotland, and also over northern Russia. Morning readings highest, 65° at Palma, 64° at Algiers, and 60° at Palermo and Malta; above 55° at many of the Mediterranean and Spanish coast stations. Lowest, 9° at Hermanstadt, 11° at Warsaw and Cracow, and 13° at Breslau and Leunberg. Considerably below the freezing point over eastern and central Europe generally, and also over central Ireland, and just touching it in some parts of central and southern England. Remaining below the freezing point all day over the Netherlands, Germany, and central France, and below 35° at some stations in the south of England.

Wind light to moderate from the Eastward or North-Eastward over England, the Netherlands, Denmark, Germany, and Austria, and from the South-Eastward in Ireland and Scotland; South-Westerly in the west of Norway; light from the North-Westward in Russia. Variable over southern Europe generally. Freshening later from the South-Eastward in Ireland; North-Westerly breezes setting in over Sweden; no important change occurring elsewhere.

Barometer highest, 30.5 ins. and upwards over the southern parts of Norway, 30.3 ins. and upwards in an anticyclone lying over nearly the whole of northern, eastern, and central Europe, and extending westwards over the North Sea and the northern parts of Great Britain. Lowest, 30.0 ins. and upwards in a large but shallow cyclonic system lying over Italy, Corsica, Sardinia, and the neighbouring parts of the Mediterranean and Adriatic. New disturbance approaching Ireland later from the south-westward, and barometer falling on all our own western coasts.

Friday, 21st November.

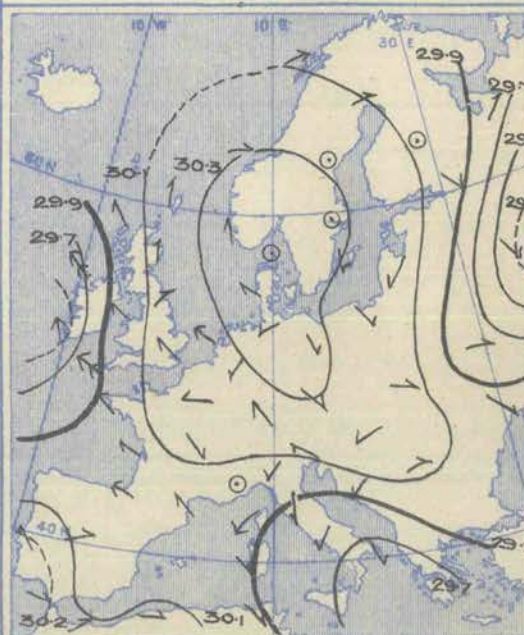
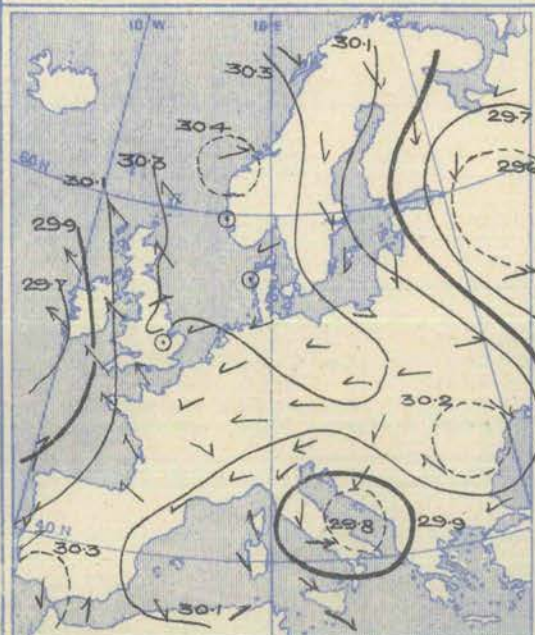
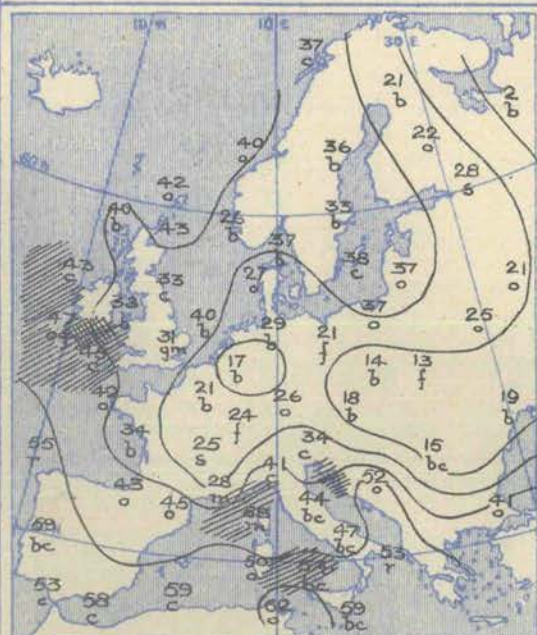
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather at 8 a.m. fair in many places, but very cloudy or overcast as a whole. Much fog over central Europe, snow falling at St. Petersburg and Lyons, and rain at Nice, Corunna, and Brindisi. Rain falling later on our extreme west coasts and in the west of France, as well as in parts of Italy and the Spanish Peninsula. Heavy snow at Kharkov.

Temperature continuing very low generally. Readings at 8 a.m. ranging from 59° at Lisbon, Algiers, and Malta, and 49° at Roche's Point, to less than 30° in most other regions, to below 20° over the centre of Europe, and to 2° at Haparanda. Maxima during day less than 32° in many parts of Europe, but above 55° on the shores of the Mediterranean generally, and about 70° in Algeria.

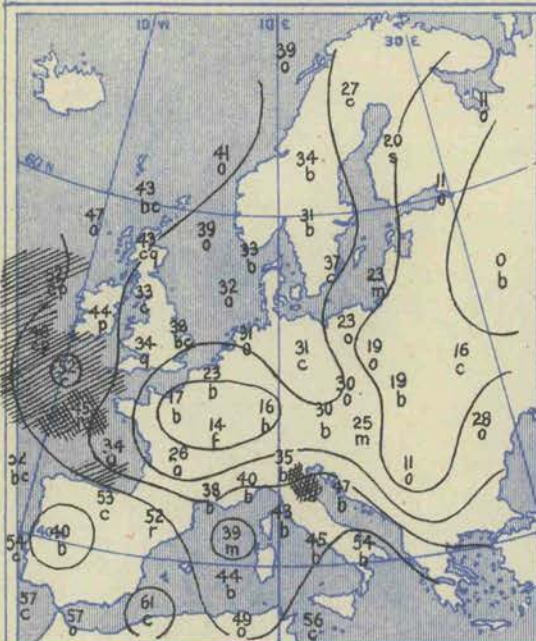
Wind at 8 a.m. Southerly or South-Easterly over our Islands, and strong to a gale in the west and south-west. Strong from the South-Eastward in the west of France. Light and anticyclonic over Scandinavia and its neighbourhood. A distinct cyclonic circulation prevailing over Russia, and another over Italy and the Adriatic. The Easterly current strong at Trieste, and the Westerly wind strong at Palermo. Gale increasing in force on our western coasts later. No very decided change elsewhere.

Barometer at 8 a.m. highest, 30.4 ins. in the centre of an anticyclone lying over Norway, and above 30.2 ins. over Transylvania, and also in the south of Spain. Lowest, 29.6 ins. and less in a depression having its centre between Moscow and St. Petersburg, below 29.7 ins. in another system off the south-west of Ireland, and below 29.8 ins. in a third disturbance over the south of Italy and the Adriatic. Pressure giving way generally later. Depression off our south-west coasts travelling northwards and spreading eastwards, and those over Russia and Italy moving south-eastwards.

Saturday, 22nd November.

Temperature and Weather.

8 a.m.

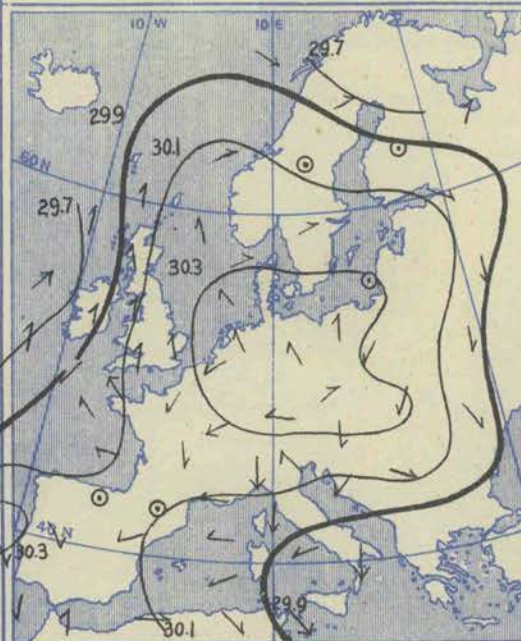


Weather at 8 a.m. showery or rainy over Ireland, the west of England, and at Barcelona, and snow falling at Kuopio and Nicolaeff. Cloudy or overcast in most other regions, but fair over Sweden, France, Italy, and at stations in western Germany and the Netherlands. Some rain later in most parts of our Islands and the west of France, as well as at Palermo, and in Algeria. Snow at Archangel.

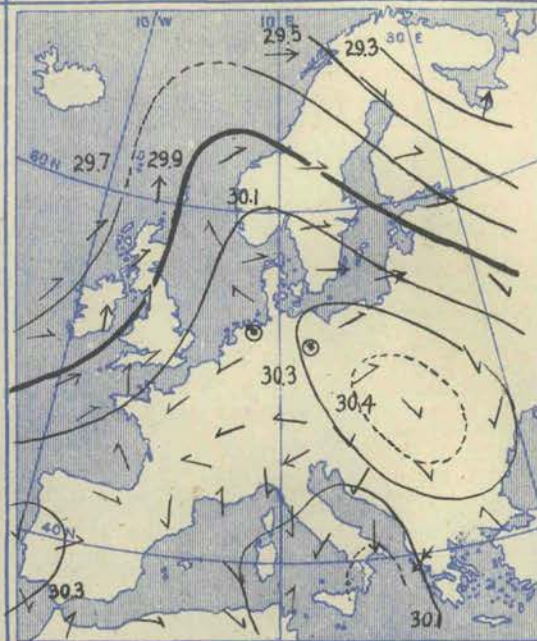
Temperature changed irregularly. Readings at 8 a.m. highest, 61° at Algiers, 57° at San Fernando, 53° at Biarritz, and 52° at Seilly and Blacksod Point. Lowest, 0° (zero) at Moscow, 11° at Archangel, St. Petersburg, and Hermanstadt, 16° at Munich, 17° at Paris, and much below freezing point over all the more northern countries of the Continent generally. Readings exceeding 50° later at our own western and north-western stations, as well as in the Riviera and Italy, and rising to 72° in Algeria. Frost continuing all day over central Europe and the east of France.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light and anticyclonic over the major portion of Europe, but moderate to strong from the Southward over the United Kingdom. A partial cyclonic circulation of North-Easterly to North-Westerly winds shown over the Mediterranean. No great change as a whole later, but fresh Westerly winds setting in in the extreme north, and wind increasing to a gale from North-East, at Patras.

Barometer at 8 a.m. highest, above 30.3 ins. to 30.4 ins. in an anticyclone covering Denmark, and the greater part of Germany and Austria-Hungary. Lowest, 29.7 ins. (1) in a depression off the west of our Islands, and (2) over Lapland; below 29.9 ins. over south-eastern Europe. Anticyclone moving south-eastwards later, and a second high-pressure area developing over Spain. Large disturbance travelling eastwards across Lapland and northern Russia.

GENERAL NOTES.

During the whole of this period an extensive anticyclone, in which the barometer ranged from nearly 31.0 ins. on Monday and Tuesday, to about 30.4 ins. on Saturday, was observed. At first it lay over Scandinavia and the neighbouring regions of Russia, but subsequently extended, and finally, moved, to the more central parts of Europe. Depressions were consequently not very numerous; systems of little depth were, however, almost continuously shown over the Italian Peninsula and the western half of the Mediterranean, others frequently impinged on our south-western or western coasts, while during the later days of the week a rather important disturbance appeared to the eastward of the anticyclone, i.e., over Finland and northern Russia. The cyclonic movement of winds around the southern depressions was, as a rule, of only moderate strength, but over our own southern, south-western, and western

districts the Easterly to South-Easterly or Southerly winds were at times very strong, and more than once reached the force of a gale. The advent of the high pressure and the accompanying Easterly and North-Easterly current of wind brought about a very brisk fall of temperature over all the central and western countries, and readings soon became very low for the time of year. Within and in the immediate vicinity of the high-pressure area the weather was mostly very dry, and sometimes foggy, but rain fell at times on our own extreme western coasts, and very heavy amounts were occasionally experienced over Italy and the extreme south of France. In several parts of central Europe, and also in the inland departments of France, considerable falls of snow occurred.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 278.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE.	4.3	- 3.7	8	- 7	WORKSOP.	25.7	+ 15.8	44	+ 27	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA.	21.7	+ 13.0	42	+ 25	THURCASTON.	20.1	+ 9.3	35	+ 16	SOUTHPORT	15.9	—	28	—
EDINBURGH.	8.1	- 1.5	15	- 3	MARGATE.	20.5	+ 7.0	34	+ 12	RHYL.	24.4	—	42	—
MORPETH.	18.5	—	34	—	BROADSTAIRS.	21.3	—	36	—	COLWYN BAY.	—	—	—	—
NEWCASTLE-ON-TYNE.	8.1	—	16	—	EASTBOURNE.	15.0	+ 1.0	25	+ 2	ABERDOVEY.	20.2†	—	35†	—
YORK.	27.4	+ 19.1	48	+ 33	BRIGHTON.	14.8	+ 0.2	25	0	TENBY.	12.6	+ 0.9	21	- 2
CROMER.	27.2	—	47	—	WORTHING.	17.1	—	29	—	NEWQUAY.	—	—	—	—
LOWESTOFT.	20.8	—	35	—	BOGNOR.	13.7†	—	23†	—	TORQUAY.	8.3	- 5.7	14	- 9
DUNMOW.	14.3	—	24	—	WATERGATE.	17.4	—	29	—	GUERNSEY.	10.0†	- 2.4	18†	- 4.0
HOLLESLEY BAY.	27.0	—	46	—	WESTBOURNE.	13.0†	- 0.2	22†	0					
SHEFFIELD.	11.0	—	19	—	VENTNOR HOSPITAL.	13.4	- 0.9	22	- 2					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.		NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)									Rainfall.			Bright Sunshine.			
			Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.	
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
Week ending	Nov. 15th, 1902.	Durham	52	36	50.8	41.5	46.2	+ 4.0	32	1	1	0.10	- 0.51	12.5	- 0.2	22	0	
"	" " "	Cromer	—	—	—	—	—	—	—	—	—	—	—	23.5	—	30	—	
"	" " "	Hollesley Bay	—	—	—	—	—	—	—	—	—	—	—	17.9	—	29	—	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, NOVEMBER 29TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 284.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	30	48.2	40.0	44.1	4 above	Day-deg. 23	Day-deg. + 8	Day-deg. 6	Day-deg. -16	Day-deg. 1862	Day-deg. -133	Day-deg. 698	Day-deg. + 6
	1. SCOTLAND, EAST	49	26	46.4	37.3	41.8	2 above	12	- 3	19	- 8	2014	-333	810	+ 43
	2. ENGLAND, N.E.	52	28	47.3	37.9	42.6	2 above	21	+ 4	11	- 9	2438	-138	552	- 48
	3. ENGLAND, EAST	53	31	48.6	38.1	43.4	2 above	26	+ 5	11	-12	2857	-121	568	- 92
	4. MIDLAND COUNTIES	52	26	48.0	38.0	43.0	2 above	24	+ 4	11	-13	2709	-203	580	-108
	5. ENGLAND, SOUTH	54	29	50.9	42.2	46.6	4 above	32	+ 4	0	-15	3046	-238	397	- 81
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	34	48.1	40.1	44.1	2 above	23	+ 3	5	-11	2376	-132	512	- 5
	7. ENGLAND, N.W.	52	30	48.6	40.5	44.5	2 above	24	+ 2	4	-11	2610	-153	454	- 25
	8. ENGLAND, S.W.	56	32	51.5	41.7	46.7	3 above	34	+ 3	1	-10	3000	- 92	350	- 14
	9. IRELAND, NORTH	54	26	48.7	38.9	43.8	1 above	26	+ 4	9	- 6	2490	-167	356	- 87
	10. IRELAND, SOUTH	57	28	51.1	39.7	45.5	1 above	34	+ 3	6	- 6	3031*	- 10	250*	- 77
	— CHANNEL ISLANDS	57	35	54.1	47.2	50.7	3 above	61	+15	0	- 2	3632	- 19	108	- 22

DISTRICTS. (See p. 284.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Differ- ence from Mean.	Total fall.	Differ- ence from Mean.	Hours recorded.	Differ- ence from Mean.	Percent- age of possible Duration.	Differ- ence from Mean.	Hours recorded.	Differ- ence from Mean.	Percent- age of possible Duration.	Differ- ence from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in.	10ths of in.	231	+20	40.8	- 4.8	4	- 2	9	- 4	1080	- 20	26	- 1	
	1. SCOTLAND, EAST	5	8	1 more	195	+15	22.8	- 6.1	2	- 8	4	-15	1107	-161	26	- 4	
	2. ENGLAND, N.E.	5	6	0 (average)	167	0	19.3	- 4.1	1	- 8	2	-15	1189	- 61	29	- 1	
	3. ENGLAND, EAST	5	7	1 more	161	- 7	20.1	- 3.1	10	- 4	17	- 8	1525	- 72	34	- 2	
	4. MIDLAND COUNTIES	6	12	6 more	164	+ 4	22.4	- 3.3	4	- 6	7	-10	1256	- 50	32	- 1	
	5. ENGLAND, SOUTH	6	14	7 more	162	+ 6	23.3	- 2.7	8	- 5	13	- 9	1535	-112	36	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	17	4 more	209	+22	45.4	- 0.6	4	- 5	7	- 9	1211	-101	29	- 2	
	7. ENGLAND, N.W.	6	10	2 more	193	+17	25.6	- 6.5	7	- 1	12	- 2	1415	+ 93	34	+ 2	
	8. ENGLAND, S.W.	7	21	11 more	178	- 3	29.7	- 6.9	13	0	22	0	1498	-109	36	- 3	
	9. IRELAND, NORTH	6	8	0 (average)	228	+21	32.7	- 0.2	8	- 3	15	- 6	1199	- 34	29	- 1	
	10. IRELAND, SOUTH	6	11	1 more	190	0	32.3	- 4.3	14	0	25	0	1364	- 48	33	- 1	
	— CHANNEL ISLANDS	7	14	5 more	190	+ 8	25.8	- 4.2	16	- 3	27	- 5	1694	-173	41	- 4	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was dull, rainy, and frequently rough in all parts of the Kingdom. Temperature was above the mean, the excess ranging from only 1° in Ireland N., to as much as 4° in Scotland N. and England S. In the latter district the average temperature for last week was only 36.4°, while that for the present week is as high as 46.6°. The highest of the maxima occurred on rather irregular dates. In the Channel Islands and Ireland S. they were as high as 57°, and in England S.W. 56°, while elsewhere they varied between 54° in England S. and Ireland N., to 49° in Scotland E. The lowest of the minima were registered either at the beginning or end of the period, and ranged from 26° in Scotland E., Ireland N., and the Midland Counties, to 34° in Scotland W., and to 35° in the Channel Islands. During the greater part of the week the nights were very mild for the time of year.

Rainfall was considerably more than the mean over the greater part of the Kingdom, but only just equal to it in England N.E. and Ireland N., and a good deal less than the normal in Scotland N. In the Midland Counties and England S. and S.W. the fall was about twice as much as the mean.

Bright Sunshine was very deficient over the country as a whole—especially over Great Britain. In Ireland S., and also in England S.W., however, the amount recorded just equalled the mean

amount. The percentage of the possible duration ranged from 27 in the Channel Islands and 25 in Ireland S., to 13 in England S., 7 in the Midland Counties and Scotland W., 4 in Scotland E., and 2 in England N.E.

Barometer and Wind.—Barometric pressure during this period changed frequently and considerably. At the opening of the week a disturbance of little depth was moving away off the north of Scotland, while the barometer was highest over France, and the winds over our Islands Westerly to South-Westerly. By Monday morning a rapid and sudden fall of the mercury had taken place in the west and south-west, and this proved to be due to a deep depression, whose centre eventually moved south-eastwards off our south-western coasts, and then east-south-eastwards over France. This system produced strong winds or gales from between south and south-east on nearly all our coasts, and subsequently strong Northerly winds over our south-western districts. It was followed during the latter half of the week by a large disturbance which moved northwards outside our north-west coasts, and caused Southerly gales in Ireland, and South-Easterly gales in Scotland, and by a secondary which, moving in a similar direction over the western parts of Great Britain, brought strong winds or gales to the south and east of England.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	48	40	46.3	42.7	44.5	+ 3.2	18	0	5	0.30	- 0.68	*	*	*
	Stornoway	51	33	50.0	39.0	44.5	+ 3.5	30	8	6	0.53	- 0.72	8.6	+ 0.8	18 + 2
	Wick	52	38	48.3	41.6	45.0	+ 4.7	23	1	5	0.14	- 0.55	*	*	*
	Lairg	51	31	46.8	36.1	41.5	+ 4.2	13	24	6	1.12	+ 0.27	*	*	*
	Glencarron	52	33	47.4	38.6	43.0	+ 3.7	21	10	4	0.46	- 1.80	*	*	*
	Fort Augustus	51	30	48.6	40.6	44.6	+ 4.3	24	4	4	0.47	- 0.62	1.8	- 1.5	4 - 3
	Fort William	52	36	49.7	41.5	45.6	+ 4.3	27	1	6	0.70	- 1.27	3.3	- 1.5	7 - 3
1. SCOTLAND, E.	Nairn	49	30	47.0	35.6	41.3	+ 1.7	14	26	3	0.13	- 0.37	*	*	*
	Aberdeen	48	30	47.1	39.4	43.3	+ 2.9	20	7	5	0.51	- 0.21	2.6	- 8.2	5 - 16
	Braemar	45	26	44.2	36.4	40.3	+ 3.5	6	21	6	1.08	+ 0.25	*	*	*
	Ochertyre	48	30	46.1	37.7	41.9	+ 2.5	11	18	7	2.01	+ 1.00	*	*	*
	Leith	49	29	48.6	37.4	43.0	+ 1.4	26	13	4	0.20	- 0.26	*	*	*
	Marchmont	47	32	45.1	37.3	41.2	+ 2.2	9	19	5	0.84	+ 0.09	1.8	- 8.2	3 - 16
2. ENGLAND, N.E.	Alnwick Castle	49	30	47.2	35.5	41.4	+ 0.5	15	27	5	0.82	+ 0.08	*	*	*
	Durham	49	29	46.2	39.3	42.8	+ 2.8	17	8	5	0.45	- 0.15	2.1	- 8.8	4 - 17
	Shields	49	32	47.6	38.4	43.0	+ 1.3	22	10	4	0.62	+ 0.09	*	*	*
	Scarborough	49	32	47.8	38.0	42.9	+ 1.0	23	11	6	0.43	- 0.20	1.2	-	2 -
	Spurn Head	48	31	47.0	39.3	43.2	+ 0.8	20	8	3	0.43	- 0.06	*	*	*
	Fulbeck (Lincolnshire)	52	28	47.7	36.7	42.2	+ 2.3	24	15	6	0.69	+ 0.25	2.3	-	4 -
3. ENGLAND, E.	Hillington	50	33	48.0	37.5	42.8	+ 2.3	25	13	6	0.50	- 0.08	6.8	- 4.5	12 - 8
	Yarmouth	49	33	47.6	37.9	42.8	+ 0.9	23	11	3	0.67	+ 0.05	*	*	*
	Geldeston	51	31	48.2	36.3	42.3	+ 0.6	26	16	6	0.61	+ 0.05	6.2	- 6.8	11 - 12
	Cambridge	53	31	50.6	37.9	44.3	+ 3.4	33	11	5	0.77	+ 0.34	12.1	- 0.1	21 0
	Felixstowe	49	36	47.8	40.0	43.9	+ 1.8	22	6	4	0.59	-	14.9†	-	26†
	Rothamsted	51	32	49.3	38.8	44.1	+ 3.4	28	9	7	0.81	+ 0.21	6.0	- 6.0	11 - 11
4. MIDLAND COUNTIES	Harrogate	47	26	45.4	34.9	40.2	0.0	10	28	7	0.93	+ 0.25	1.1	-	2 -
	Bawtry (Hesley Hall)	49	28	47.3	34.6	41.0	+ 0.6	15	30	7	0.51	+ 0.04	*	*	*
	Loughborough	51	31	48.4	38.3	43.4	+ 2.4	25	10	6	0.82	+ 0.31	*	*	*
	Colly Weston (Stamford)	49	30	46.6	36.9	41.8	+ 1.4	13	21	5	0.93	+ 0.40	*	*	*
	Cheadle	49	33	47.0	38.5	42.8	+ 2.8	20	10	7	1.33	+ 0.63	*	*	*
	Birmingham (Mid. Inst. Obs.)	49	35	47.9	40.0	44.0	+ 2.7	22	6	6	1.33	+ 0.79	4.7	-	8 -
	Churchstoke	51	35	48.6	38.9	43.8	+ 3.1	26	9	5	1.51	+ 0.77	7.9	- 2.6	14 - 5
	Hereford	52	31	49.3	38.4	43.9	+ 2.3	28	10	6	1.67	+ 1.11	*	*	*
	Cirencester	51	31	49.4	38.2	43.8	+ 3.4	29	11	7	1.88	+ 0.71	5.2	- 6.1	9 - 11
	Oxford	51	34	49.9	40.9	45.4	+ 3.6	28	3	6	1.69	+ 1.16	6.3	- 5.4	11 - 9
	London	52	34	50.4	41.4	45.9	+ 3.5	30	2	5	0.70	+ 0.19	3.6†	- 3.1†	6† - 6†
5. ENGLAND, S.	Swarraton (Alresford)	52	29	50.1	39.0	44.6	+ 3.7	31	8	7	1.63	+ 0.93	*	*	*
	Dungeness	54	32	52.0	43.0	47.5	+ 3.7	39	0	6	0.55	0.00	7.6	-	13 -
	Hastings (St. Leonards)	54	41	50.6	44.1	47.4	+ 3.7	38	0	6	0.98	+ 0.25	7.9	- 6.9	14 - 12
	Southampton	54	35	52.1	42.8	47.5	+ 4.0	39	0	7	1.64	+ 0.92	7.8	- 4.7	13 - 8
	Portland Bill	54	38	52.3	45.4	48.9	+ 4.0	48	0	6	1.08	-	*	*	*
	Shaftesbury	52	36	48.8	39.9	44.4	+ 4.0	26	6	6	2.45	+ 1.66	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	37	49.3	41.7	45.5	+ 3.1	26	1	7	1.73	- 0.28	*	*	*
	Glasgow	49	36	46.9	40.6	43.8	+ 3.0	18	4	7	0.97	+ 0.07	0.3	- 4.7	1 - 9
	Gally	50	35	47.3	38.5	42.9	+ 1.9	24	10	6	2.57	+ 1.34	*	*	*
	Douglas (Isle of Man)	50	34	48.8	39.6	44.2	+ 0.6	25	7	6	1.46	+ 0.39	7.0	- 5.2	13 - 10
7. ENGLAND, N.W.	Newton Reigny	48	30	45.9	36.7	41.3	+ 2.0	11	21	7	1.17	-	1.0	-	2 -
	Stonyhurst	49	37	46.9	41.1	44.0	+ 3.0	18	3	6	1.06	0.00	2.0	- 6.3	4 - 12
	Blackpool	51	34	49.3	40.0	44.7	+ 2.7	27	6	6	1.42	+ 0.67	7.9	- 0.4	14 - 1
	Manchester (Prestwich)	50	36	48.3	40.7	44.5	+ 3.5	23	4	7	1.00	+ 0.19	0.6	-	1 -
	Liverpool Obs. (Bidston)	51	34	48.7	39.9	44.3	+ 1.7	25	6	5	0.81	+ 0.19	7.2	-	13 -
	Chester	52	35	50.4	39.7	45.1	+ 2.0	31	6	5	0.80	-	*	*	*
	Llandudno	51	38	49.8	42.3	46.1	+ 1.5	29	0	7	0.92	+ 0.17	13.7	+ 3.4	25 + 6
	Holyhead	51	40	49.1	43.3	46.2	+ 1.0	29	0	6	1.14	+ 0.22	*	*	*
	Llandoverly	54	34	50.9	39.3	45.1	+ 3.6	33	8	7	1.54	+ 0.36	*	*	*
8. ENGLAND, S.W.	Pembroke	54	43	52.3	46.0	49.2	+ 3.0	50	0	7	1.61	+ 0.70	11.4	- 1.2	20 - 2
	Clifton	54	34	50.8	42.3	46.6	+ 4.2	32	0	5	1.34	+ 0.58	*	*	*
	Bath	55	32	51.7	39.7	45.7	+ 3.0	36	6	6	1.44	+ 0.76	5.6	-	10 -
	Arlington (N. Devon)	54	38	49.9	41.0	45.5	+ 2.8	29	3	7	2.36	+ 0.99	*	*	*
	Cullompton	55	32	51.1	38.2	44.7	+ 2.6	35	11	7	2.22	+ 1.37	10.0	- 0.7	17 - 1
	Falmouth	56	40	52.7	44.5	48.6	+ 2.0	46	0	7	2.72	+ 1.43	19.0	+ 4.2	32 + 7
	Plymouth	55	38	52.9	42.6	47.8	+ 2.5	41	0	7	3.18	+ 2.31	12.9	- 0.3	22 - 1
	Malin Head	50	37	47.6	42.0	44.8	+ 1.1	20	0	5	0.37	- 0.87	*	*	*
9. IRELAND, N.	Edenfel (Omagh)	50	28	46.1	36.3	41.2	+ 1.2	11	23	5	0.48	- 0.36	*	*	*
	Blacksod Point	53	39	50.1	44.1	47.1	+ 2.4	36	0	6	0.98	- 0.30	*	*	*
	Markree Castle	52	26	49.3	34.3	41.8	+ 0.1	20	32	5	0.48	- 0.45	10.9	- 0.1	20 0
	Armagh	51	30	48.2	37.7	43.0	+ 1.7	25	12	6	0.70	+ 0.03	5.5	- 5.9	10 - 11
	Donaghadee	54	34	51.0	38.7	44.9	+ 1.7	34	9	6	2.05	+ 1.35	*	*	*
	Dublin	54	35	51.3	40.2	45.8	+ 1.8	34	5	6	1.11	+ 0.53	12.9	- 1.7	23 - 3
10. IRELAND, S.	Parsonstown	55	30	49.6	38.3	44.0	+ 3.2	30	10	7	0.41	- 0.27	16.5	+ 3.6	30 + 7
	Kilkenny	55	28	50.6	35.4	43.0	+ 0.2	35	18	5	1.21	+ 0.51	*	*	*
	Roche's Point	54	37	51.6	41.9	46.8	+ 0.9	34	0	7	1.12	- 0.02	*	*	*
	Valencia	57	34	52.0	42.6	47.3	+ 0.7	37	0	6	1.69	+ 0.24	12.2	- 1.0	21 - 2
	Killarney	56	33	52.4	40.0	46.2	+ 1.5	38	6	6	1.40	- 0.14	*	*	*
	Foynes	55	32	50.4	39.8	45.1	+ 1.3	31	6	3	0.56	- 0.44	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	45	54.4	48.1	51.3	+ 2.6	65	0	7	1.46	+ 0.58	25.0	-	42 -
	Jersey	55	35	53.7	46.3	50.0	+ 3.2	56	0	7	1.22	+ 0.39	15.9	0.0	27 0

Stations Marked † are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 23rd November.

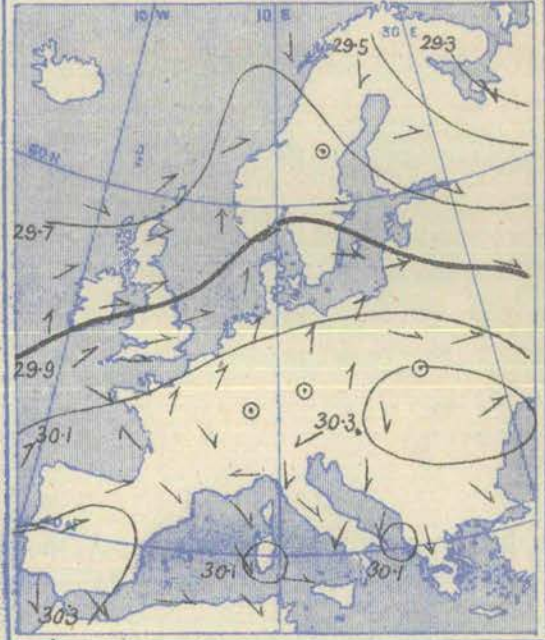
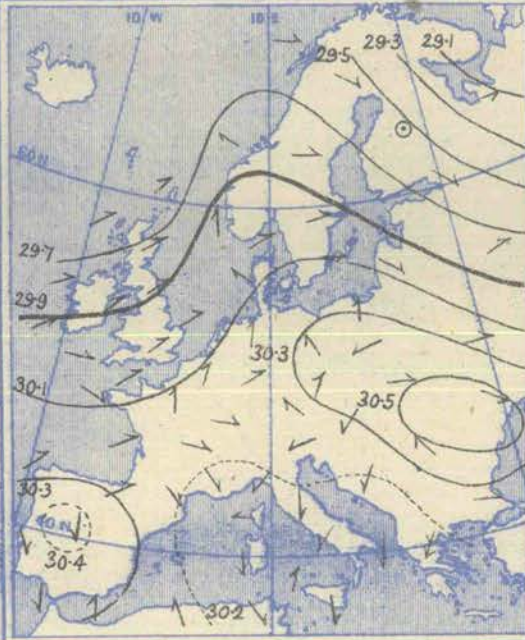
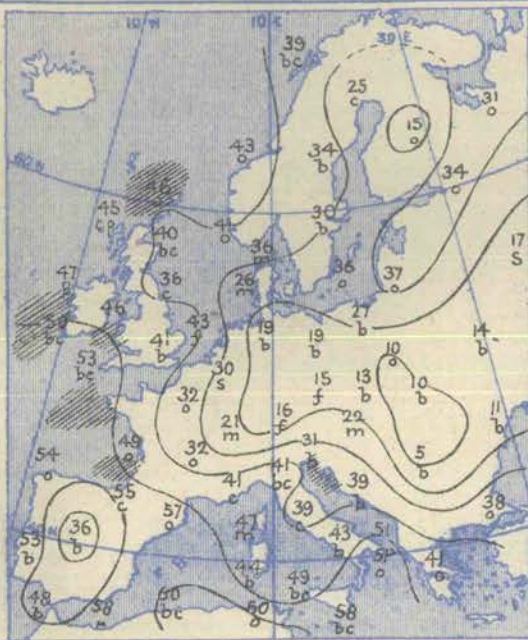
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull in a few localities, but fine and bright as a whole. Rain falling in the extreme north of Scotland and at Limoges, and snow at Moscow and Vienna. Rain later in the west and north-west of our Islands, most parts of France, Denmark, and the Netherlands, as well as in Algeria and Malta.

Temperature continuing low in most places. Readings at 8 a.m. highest, 60° at Algiers and La Calle, and 58° at a few other stations in extreme south; 55° at Biarritz, 53° at Scilly. Lowest, 1° at Kharkov, 5° at Hermanstadt, 15° at Prague and Kuopio, 17° at Moscow, and 21° at Karlstadt. Rising later to 56° in the Scilly Islands, to a few degrees higher on the south and south-west coasts of France, to 66° at Algiers and San Fernando, and to 70° at Nemours. Remaining below 32° over the major portion of Germany and Austria.

Wind Westerly and South-Westerly or Southerly over the United Kingdom, and moderate or light in force. Moderate from the Westward over Scandinavia and the more northern districts of Russia, chiefly Northerly over the south of Europe (with a gale at Athens), and light and anticyclonic over Hungary and the south of Russia. No decided change during day, but wind backing on our south-west and west coasts.

Barometer at 8 a.m. highest, 30.3 ins. in an anticyclone over south-eastern Europe, and above 30.4 ins. in another system over Spain. Lowest, 29.2 ins. and less over the White Sea; below 29.6 ins. to the northward of the Hebrides. Both high-pressure areas decreasing in height later, and barometer beginning to fall on our own extreme south-west coasts. Low pressure over White Sea travelling away to Asia.

Monday, 24th November.

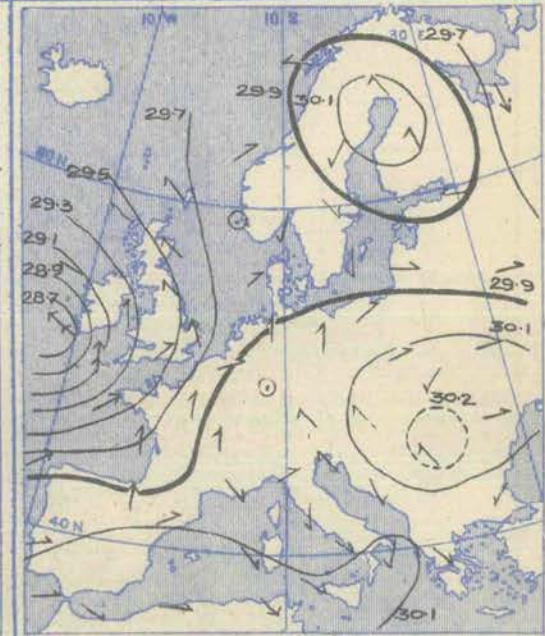
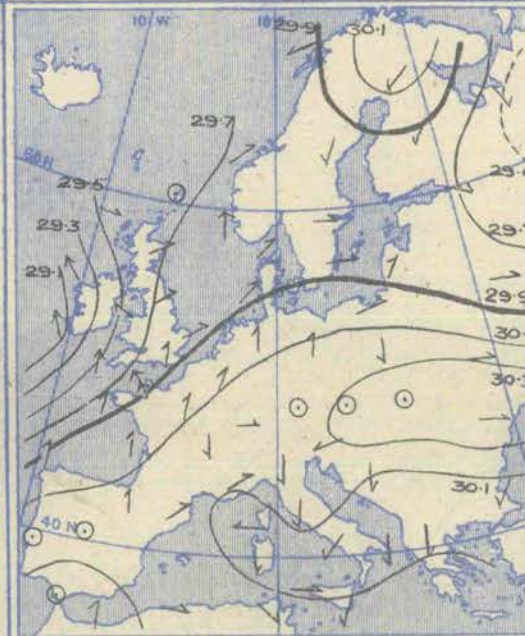
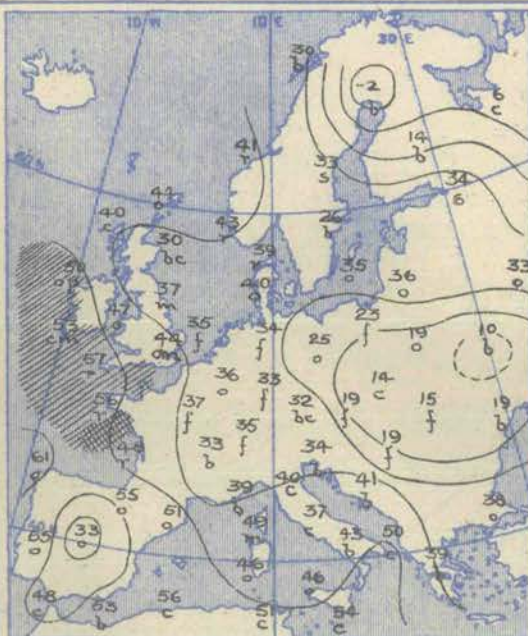
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull generally, but fair at some stations both in extreme north and south. Much fog prevailing over the central parts of Europe, the Baltic, and Denmark. Rain falling in Norway, in our own western districts and the west of France, and snow in some parts of Sweden and at St. Petersburg. Rain later throughout north-western Europe—as much as 0.8 in. at Portland Bill, and 0.8 in. at Rochefort.

Temperature at 8 a.m. highest, 61° at Corunna, 56° at Algiers, and 54° at Roche's Point. Lowest, 2° at Haparanda, +5° at Kharkov, 8° at Nicolai, 14° at Cracow, 25° at Berlin and Swinemünde, 32° at Nairn, 36° at Florence, 38° at Athens and Constantinople, and 39° at Madrid. Subsequently rising to several degrees above 50° on our south and south-west coasts; to 64° at Bilbao and San Fernando, to 68° at Nemours, and to 70° at Algiers. Not exceeding 46° at Athens, and continuing low over central Europe. Maximum at Turin only 30°.

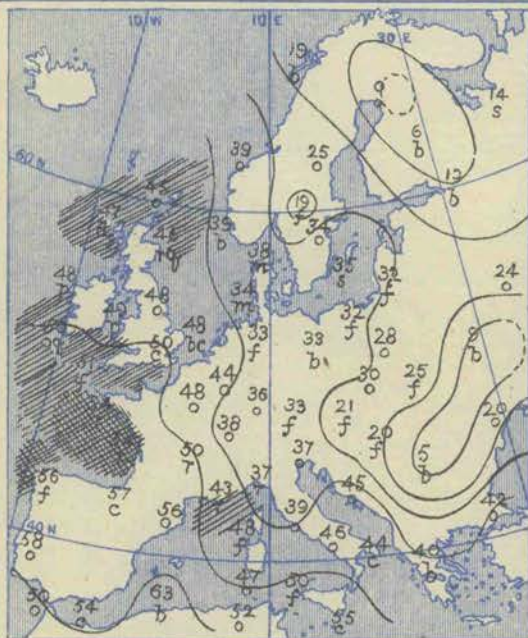
Wind Southerly and South-Easterly over Spain, France, and the United Kingdom, and blowing freshly or strongly in most places. Light and irregularly cyclonic over Italy and the Mediterranean. Light and anticyclonic over central and eastern Europe, and moderate from the North-Eastward in the north of Scandinavia. Wind backing somewhat and increasing in force over the United Kingdom by evening, and reaching a fresh or strong gale on our south-west coasts.

Barometer at 8 a.m. highest, above 30.30 ins. over the extreme south of Spain and Morocco, and nearly as high in an anticyclone extending from Bohemia to the Black Sea; 30.1 ins. in Lapland. Lowest, 29.1 ins. and less in a deep disturbance approaching our own western coasts; below 29.6 ins. in the extreme north-east of Russia. Barometer continuing to fall quickly on our south-west coasts during day, and full spreading eastwards and south-eastwards. No important change over the eastern parts of Europe.

Tuesday, 25th November.

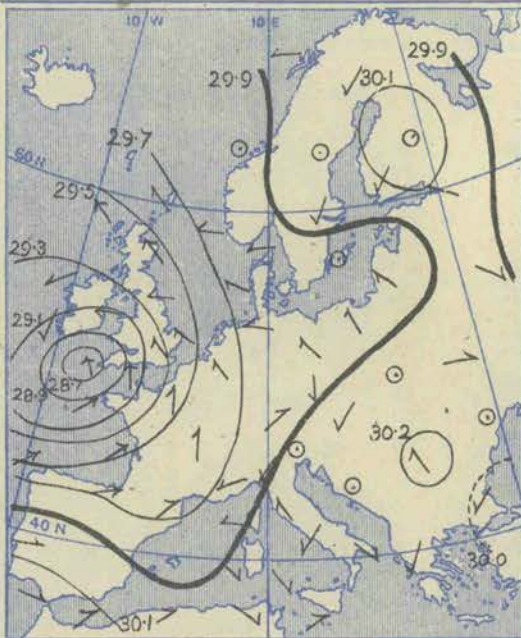
Temperature and Weather.

8 a.m.

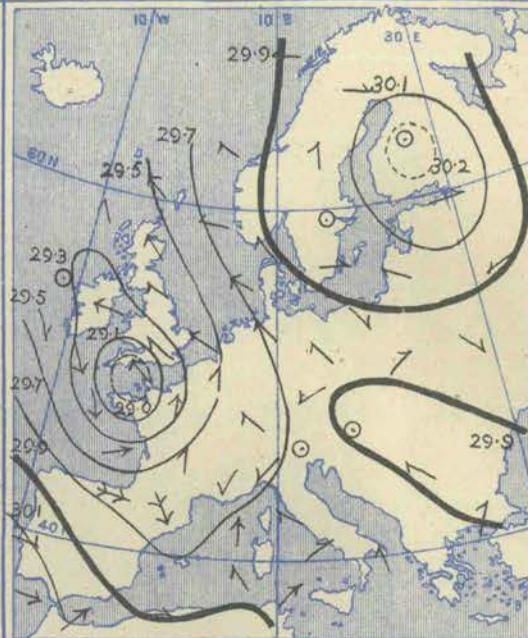


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very cloudy or overcast over the western half of our area, foggy over central Europe, and fair in some eastern and south-eastern regions. Rainy in many British and French districts, and also in the north of Italy; snow falling at Haparanda and Archangel. Rain very general over the United Kingdom, France, and Italy later—more than an inch falling at Naples and Nice, and 0.95 in. at Lyons.

Temperature risen quickly over Great Britain, France, and the central countries; fallen over the north of Russia and Scandinavia. Readings at 8 a.m. highest, 63° at Algiers, 60° at San Fernando, 58° at Lisbon, and about 50° on our south and south-west coasts. Lowest, (1) 0° at Uleaborg, and 10° at St. Petersburg; (2) 5° at Kharkov, and 7° at Nicolaieff; (3) 5° at Hermanstadt; (4) 31° at Pesaro, and 32° at Florence. Rising during day to above 50° over our Islands and France, to above 60° on many shores of the Mediterranean, and to 70° or a few degrees higher in Algeria. Remaining below 32° at Turin and some Austrian stations.

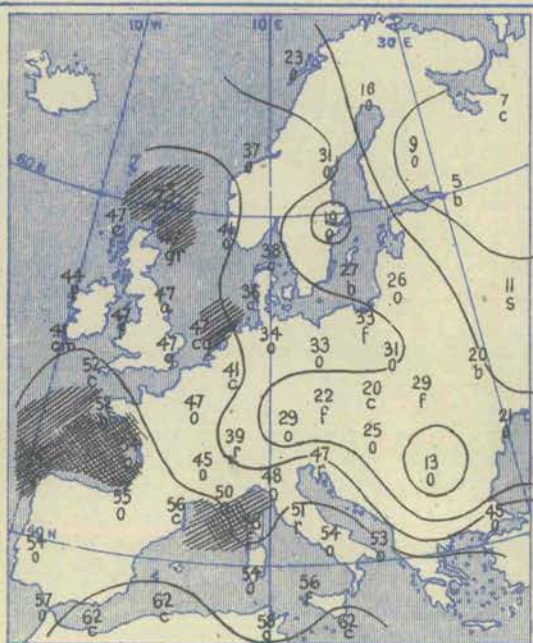
Wind at 8 a.m. cyclonic over our Islands and their neighbourhood, the South-Westerly and Southerly winds being strong over the Bay of Biscay and on our southern coasts, and the Easterly winds strong over the Irish Sea. Light and anticyclonic over northern and north-eastern Europe, and light and variable in the extreme south. Wind veering to Westward over Bay of Biscay and blowing a gale by evening, and strong Westerly winds also setting in on the Algerian coast. No general or important change elsewhere.

Barometer in morning highest, 30.2 ins. in an anticyclone over Finland, and above 30.1 ins. in another over Transylvania. Lowest, 29.6 ins. and less in the centre of a deep depression lying near Scilly. Disturbance moving eastwards during day, and barometer rising very quickly on our south-west coasts, and falling decidedly over France and Italy. Transylvanian anticyclone giving way.

Wednesday, 26th November.

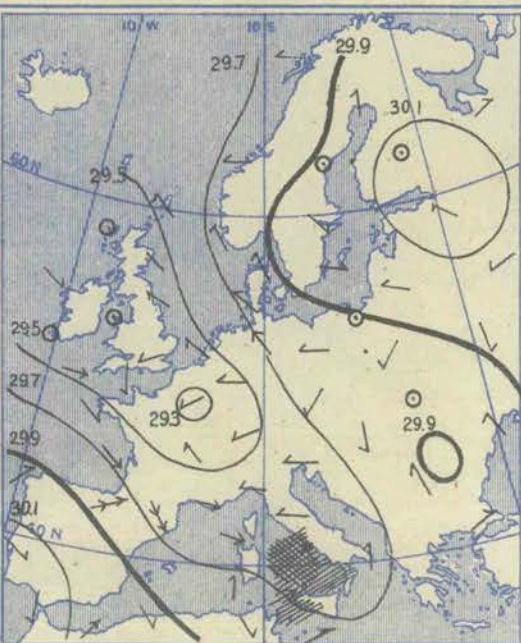
Temperature and Weather.

8 a.m.

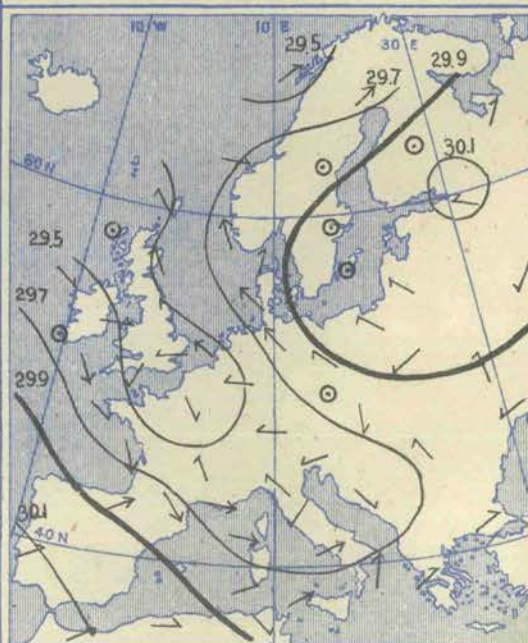


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or overcast very generally, with rain in several parts of the United Kingdom and at some French stations, snow at Moscow, and fog or mist in some Austria-Hungarian and German districts. Rain falling during day in nearly all parts of our Islands and France, in some parts of Germany, Austria, and Italy. More than an inch in the east of France and at Biarritz. Thunder and lightning occurring at the last-named station.

Temperature changed irregularly. Readings at 8 a.m. highest, 62° at Malta and on the coast of Algeria, 57° at San Fernando and Barcelona, 55° at Lorient, and 52° at Scilly. Lowest, 5° at St. Petersburg, 6° at Kharkov, 7° at Archangel, 13° at Hermanstadt, 19° at Stockholm, 20° at Cracow, and 29° at Munich. Rising subsequently to above 50° over the west and south of our Islands, to above 60° in some parts of Spain and southern Italy, and to 72° at Nemours. Remaining below 32° over the greater part of northern, eastern, and central Europe.

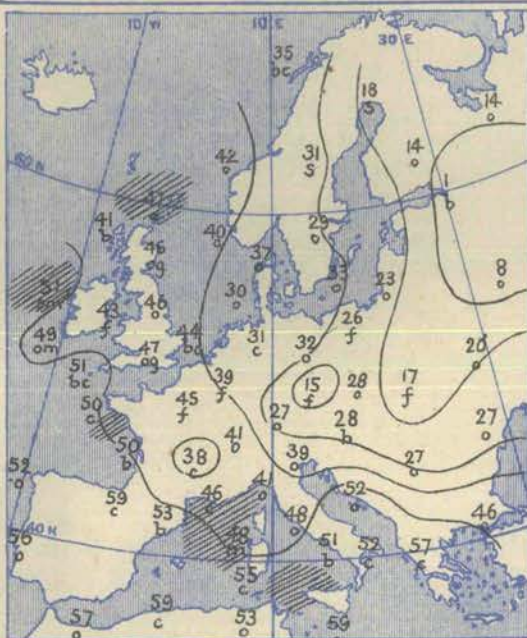
Wind in morning South-Easterly or Easterly over the eastern half of Great Britain, the North Sea, and the countries to the eastward and southward of it. Westerly or North-Westerly on our western coasts, Spain, and the west of France. Moderate in force generally, but South-Easterly winds fresh or strong in Denmark, and Westerly or North-Westerly current strong to a gale off the Bay of Biscay and at Barcelona. Light and anticyclonic over northern and eastern Europe. No material change in direction later, but gales in south subsiding.

Barometer at 8 a.m., 30.1 ins. and upwards (1) in an anticyclone over Finland, and (2) in another system over the south of Spain. Lowest, below 29.6 ins. in a large "trough" stretching north-eastwards from the south of Italy to beyond the north of Scotland, and having its lowest minimum, 29.3 ins. and less, over the north-east of France. Barometer rising steadily within the region of lowest pressure during day, and falling in the north of Scandinavia.

Thursday, 27th November.

Temperature and Weather.

8 a.m.

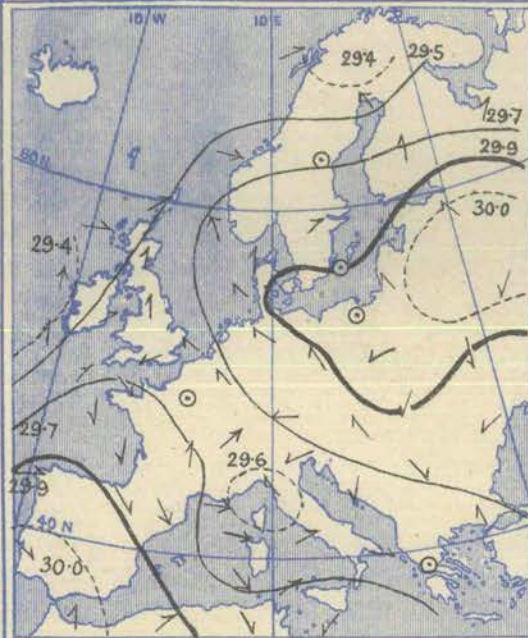


Weather at 8 a.m. fair in a few localities, but cloudy or dull generally. Snow falling in Finland, rain at Bilbao, and fog prevailing at a few stations in central Europe. Rain later in many parts of our Islands—heavy in the extreme west—over the north and west of France, in Italy and Tunis—as much as 0·8 in. at Naples, and 1·7 ins. at Tunis.

Temperature changed considerably, but irregularly. Readings at 8 a.m. highest, 59° at Malta, Algiers, and Biarritz, and 57° at Lisbon and Athens. Lowest, 1° at St. Petersburg, 8° at Moscow, 14° at Archangel, 15° at Prague, 17° at Lemberg and Warsaw, 27° at Münster, and 30° at Fanö. Lowest in our Islands, 37° at Donaghadee. Rising later to above 50° in many parts of our Islands and France, to 68° at Palermo, and to 72° at Nemours. Not touching 32° in several Austrian and German localities, and remaining much below it over Russia.

Barometer and Wind.

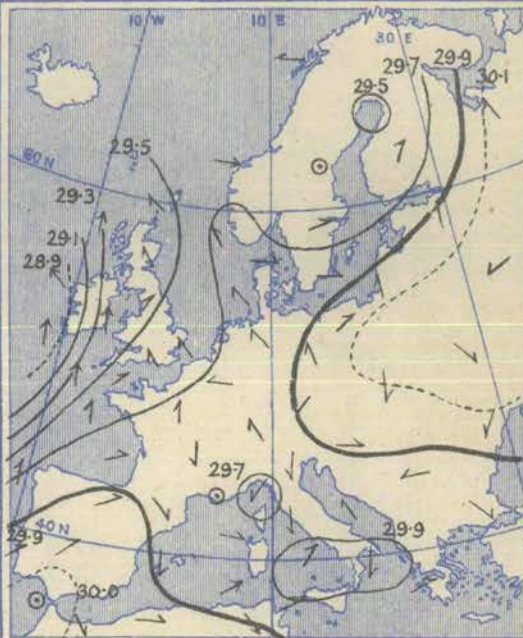
8 a.m.



Wind in morning fresh from the Southward in Ireland, light from South or South-West over the major portion of Great Britain. South-Easterly or Easterly over Germany and Denmark, and drawing into West in the north of Norway. Fresh or strong from South-West or West at some Mediterranean stations. Light anticyclonic airs prevailing over Russia. Increasing to a gale from South and South-East on our west coasts during day, and to a moderate gale from North-West at Tunis.

Barometer risen in most regions, but fallen considerably in the extreme north, and falling again on our own western coasts. Readings at 8 a.m. ranging from 30·1 ins. and upwards over central Russia, and above 30·0 ins. over the southern half of Spain, to 29·4 ins. and less over Lapland, and also off the west of Ireland. Below 29·4 ins. in two shallow minima lying respectively over the north of Italy and the Gulf of Genoa and over Dalmatia. Pressure decreasing very quickly in Ireland during day, and a deep depression advancing to our south-western districts.

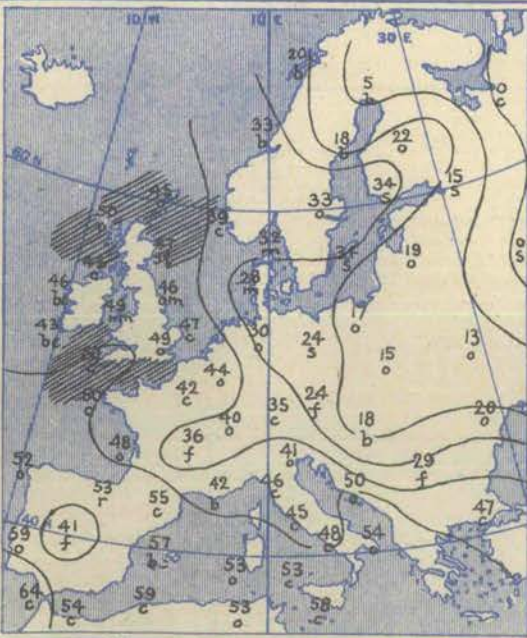
6 p.m.



Friday, 28th November.

Temperature and Weather.

8 a.m.

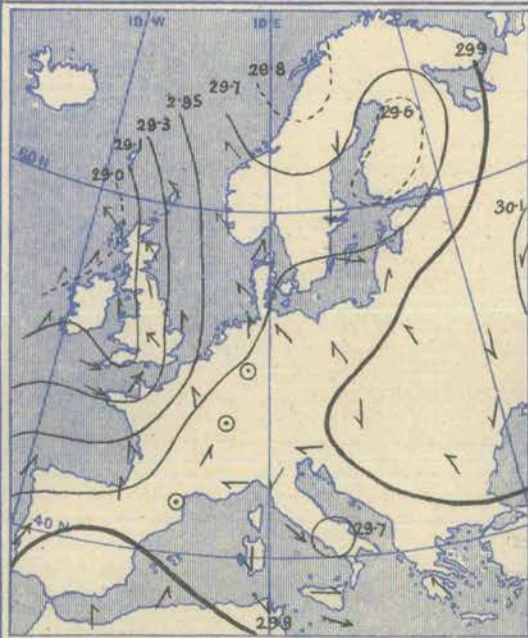


Weather in morning cloudy or dull in nearly all regions, but fine and bright over the north of Scandinavia, and also in the Riviera. Rainy in many parts of the United Kingdom, and snow falling on the shores of the Gulf of Finland and at some German stations, and fog prevailing at Madrid and in some parts of central Europe. Rain becoming very general later over our Islands, France, the Netherlands, and Germany—as much as 0·5 in. falling at Liverpool, and 0·7 in. at Oxford.

Temperature risen over Great Britain and Finland, fallen or changed irregularly elsewhere. Readings at 8 a.m. highest, 64° at San Fernando, 59° at Lisbon, Algiers, and Tunis, and 58° at Malta and Biarritz. Lowest, 0° (zero) at Archangel and Moscow, below 20° in most other parts of Russia, in the north of Sweden, in Poland and Hungary, 28° at Fanö, and 34° at Lyons. Rising during day to 70° at Nemours and Algiers, 66° at Athens, 65° at Palermo, 64° at Cetta. Considerably above 50° over France as a whole, and slightly above it at some of our own southern and south-western stations. Remaining below 32° over most northern, central, and eastern regions.

Barometer and Wind.

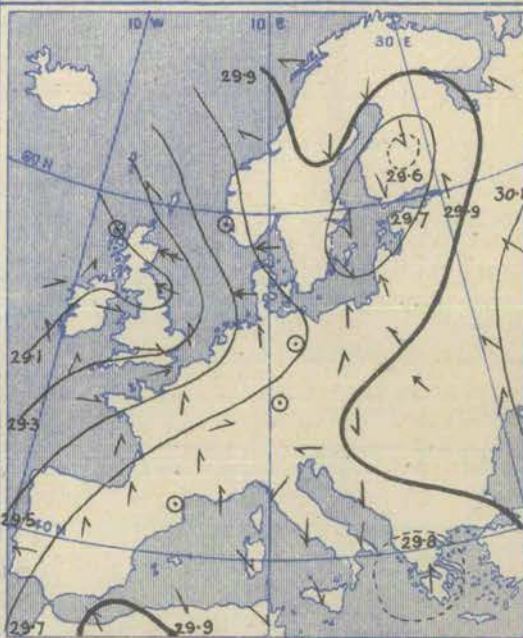
8 a.m.



Wind at 8 a.m. strong from Westward in the Scilly Isles, and strong to a gale from South in south and south-east of England, fresh or strong from the South-Eastward over Scotland and the north of England, and light from South-West in the north and west of Ireland. Light and cyclonic over Finland and its neighbourhood, light and anticyclonic over south-eastern Europe, and irregularly cyclonic (moderate or fresh) over Italy. Wind veering to Westward on our south coast later and decreasing in force; remaining South-Easterly in Scotland and increasing to a gale. Very little change elsewhere.

Barometer in morning highest, above 30·0 ins. over the east and south of Russia, above 29·9 ins. over the south of Spain and the north-west of Africa, and 29·8 ins. at Bodö. Lowest, 29·0 ins. and less off our north-west coasts; below 29·1 ins. over the south-west of England and South Wales; below 29·6 ins. over Finland, and below 29·7 ins. over the south of Italy. Secondary disturbance moving northwards over England during day, and barometer rising again on our south-west and west coasts. Pressure increasing both at Bodö and in the south of Russia.

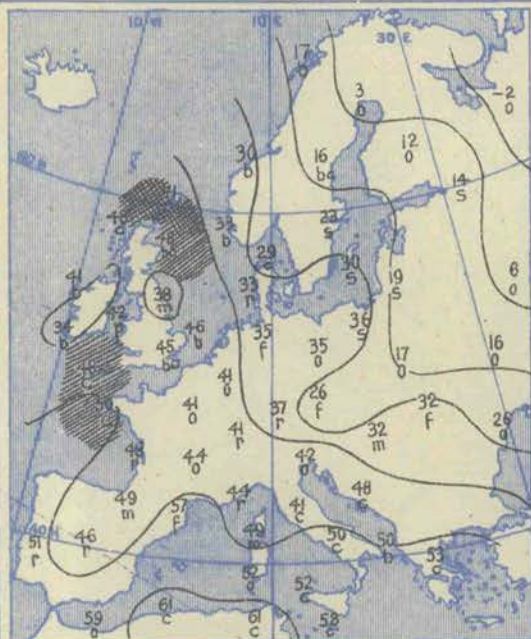
6 p.m.



Temperature and Weather.

Barometer and Wind.

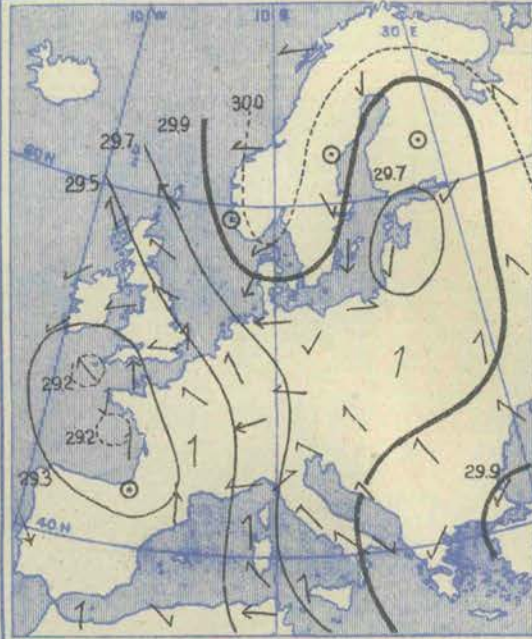
8 a.m.



8 a.m.



6 p.m.



Wind in morning Southerly to South-Easterly over our Islands and their immediate neighbourhood, and strong in extreme north. Light from the Northward or Eastward over Italy and the Mediterranean; Northerly at Lisbon, and South-South-Easterly at Madrid. Northerly over the Gulf of Bothnia, and drawing into East and blowing freshly or strongly over Denmark. A complete cyclonic circulation setting in over the Bay of Biscay and its neighbourhood during day. No great change elsewhere.

neighbourhood during day. No great change elsewhere.
Barometer fallen over the Spanish Peninsula, Algeria, France, and central Europe, risen elsewhere.
 Readings at 8 a.m. highest, about 30.1 ins. over central and southern Russia, and above 30.0 ins. in the north of Norway. Lowest, 29.2 ins. and less over Ireland and south Wales; below 29.4 ins. over Spain and Portugal, and about 29.6 ins. over East Prussia. Pressure increasing over our Islands during day, but a complex cyclonic disturbance appearing over the Bay of Biscay, and a small system over Tunis.

GENERAL NOTES.

depressions of little depth continued in the Mediterranean and Italy, and more important systems appeared over Finland and Lapland. Towards the end of the week, the centre of a large disturbance moved Northwards outside our own western coasts, while a secondary travelled in a similar direction over the western districts of Great Britain. This brought a renewal of the strong winds and gales to our coasts, and some increase in the force of the winds over north-western Europe generally. Rather high temperatures and much rain prevailed over the United Kingdom and the major portion of France, and occasional heavy rain in Italy. Over Russia and central Europe temperature was low and the weather mostly dry, although falls of snow were not infrequent in some of the more northern localities.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 284.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNES - - - -	0·8	- 6·5	2	- 14	WORKSOP - - - -	1·8	- 7·2	3	- 13	BOURNEMOUTH - - -	—	—	—	—
STRATHPEFFER SPA - -	6·5	- 1·8	13	- 4	THURCASTON - - - -	2·7	- 7·0	5	- 13	SOUTHPORT - - - -	6·5	—	12	—
EDINBURGH - - - -	1·4	- 6·9	3	- 14	MARGATE - - - -	6·0	- 6·6	10	- 11	RHYL - - - -	—	—	—	—
MORPETH - - - -	1·6	—	3	—	BROADSTAIRS - - - -	7·2	—	12	—	COLWYN BAY - - - -	—	—	—	—
NEWCASTLE-ON-TYNE -	0·5	—	1	—	EASTBOURNE - - - -	7·2	- 6·3	12	- 11	ABERDOVEY - - - -	12·7†	—	23†	—
YORK - - - -	0·0	- 7·3	0	- 13	BRIGHTON - - - -	7·9	- 5·8	14	- 10	TENBY - - - -	13·2	+ 0·6	23	+ 1
CROMER - - - -	8·8	—	16	—	WORTHING - - - -	9·0	—	16	—	NEWQUAY - - - -	14·8	- 0·2	25	0
LOWESTOFT - - - -	10·8	—	19	—	BOGNOR - - - -	8·9†	—	15†	—	TORQUAY - - - -	13·7	+ 0·4	23	+ 1
DUNMOW - - - -	9·1	—	16	—	WATERGATE - - - -	7·8	—	13	—	GUERNSEY - - - -	6·7†	- 5·7	11†	- 10
HOLLESLEY BAY - - -	11·9	—	21	—	WESTBOURNE - - - -	7·5†	- 5·1	13†	- 9					
SHEFFIELD - - - -	2·3	—	4	—	VENTNOR HOSPITAL -	11·5	- 1·8	20	- 8					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
Week ending Nov. 22nd, 1902.	Foynes	55	33	49·8	39·6	44·7	+ 0·1	24	4	3	1·00	+ 0·02	—	—	16	—
" " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	9·8	- 6·6	—	- 11

WEEKLY WEATHER REPORT.

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Fourth Series.

WEEK ENDING SATURDAY, DECEMBER 6TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Values* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 290.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	22	41.9	35.5	38.8	1 below	Day-deg. 0	Day-deg. -12	Day-deg. 22	Day-deg. -3	Day-deg. 1802	Day-deg. -145	Day-deg. 720	Day-deg. +3
	1. SCOTLAND, EAST	47	16	38.9	32.7	35.9	3 below	0	-13	43	+12	2014	-346	853	+55
	2. ENGLAND, N.E.	47	20	40.3	35.2	37.9	3 below	0	-14	29	+4	2438	-152	581	-44
	3. ENGLAND, EAST	51	18	40.3	33.3	37.0	4 below	0	-16	35	+7	2857	-137	603	-85
	4. MIDLAND COUNTIES	50	17	39.3	31.2	35.6	5 below	0	-17	45	+16	2709	-230	625	-92
	5. ENGLAND, SOUTH	53	20	41.7	34.5	38.2	4 below	0	-23	27	+7	3046	-261	424	-74
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	49	25	41.3	35.6	38.6	3 below	0	-13	24	+5	2376	-150	536	0
	7. ENGLAND, N.W.	50	18	40.8	33.1	37.1	5 below	0	-19	34	+15	2610	-172	488	-10
	8. ENGLAND, S.W.	54	21	43.6	34.4	39.2	4 below	4	-23	29	+16	3004	-115	379	+2
	9. IRELAND, NORTH	50	27	43.0	35.7	39.5	2 below	3	-16	24	+6	2493	-183	330	-81
	10. IRELAND, SOUTH	53	29	46.0	36.6	41.5	3 below	11	-17	23	+9	3042	-27	273	-68
	— CHANNEL ISLANDS	55	28	47.7	41.0	44.5	3 below	22	-19	3	0	3654	-38	111	-22

DISTRICTS. (See p. 290.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	10ths of in. 5	8 less	233	+17	41.3	-5.6	8	+2	17	+5	1088	-17	25	0	
	1. SCOTLAND, EAST	4	11	4 more	199	+15	23.9	-5.7	1	-8	2	-16	1108	-169	26	-4	
	2. ENGLAND, N.E.	5	13	8 more	172	+1	20.6	-3.4	4	-2	8	-5	1193	-63	28	-1	
	3. ENGLAND, EAST	4	10	4 more	165	-7	21.1	-2.6	11	+1	19	+2	1536	-71	34	-2	
	4. MIDLAND COUNTIES	3	7	1 more	167	+3	23.1	-3.1	9	+1	17	+2	1265	-49	31	-1	
	5. ENGLAND, SOUTH	3	9	3 more	165	+5	24.2	-2.4	8	-4	15	-7	1543	-115	35	-3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	11	2 less	211	+19	46.5	-0.8	4	-4	7	-8	1215	-105	29	-3	
	7. ENGLAND, N.W.	3	6	2 less	196	+16	26.2	-6.7	11	+3	21	+5	1427*	+96	34	+2	
	8. ENGLAND, S.W.	3	8	2 less	181	-5	30.5	-7.1	17	+6	31	+11	1515	-103	36	-2	
	9. IRELAND, NORTH	3	7	2 less	231	+19	33.4	-0.4	14	+4	26	+7	1213	-31	29	-1	
	10. IRELAND, SOUTH	4	9	2 less	194	0	33.2	-4.9	11	-1	21	-2	1375	-49	32	-1	
	— CHANNEL ISLANDS	4	9	0 (average)	194	+7	26.7	-4.2	11	-4	19	-6	1705	-177	40	-4	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather continued very wet and unsettled until towards the middle of the period when it became much drier and finer generally, although some snow showers were experienced in many eastern and south-eastern localities.

Temperature was below the mean, the deficit ranging from 1° in Scotland N. and 2° in Ireland N. to 4° in England S., S.W., and E., and to 5° in the Midland Counties and England N.W. The highest of the maxima occurred during the earlier part of the time, and the lowest of the minima, either on Friday or Saturday. The former ranged from 55° in the Channel Islands and 54° in Scotland E., 17° in the Midland Counties, 18° in England N.W. and E., and below 25 in nearly all parts of Great Britain. In the Channel Islands and Ireland S. the minima were no lower than 28° and 29° respectively.

Rainfall exceeded the mean in all the "Wheat-producing Districts," and also in Scotland W., and just equalled it in the Channel Islands, but elsewhere it was less than the normal.

Bright Sunshine varied considerably in different parts of the Kingdom, in some districts being above, and in others below the mean amount. The percentage of the possible duration ranged from 31 in England S.W. and 26 in Ireland N. to 15 in England S., 8 in England N.E., 7 in Scotland W., and to 2 in Scotland E.

Barometer and Wind.—Soon after the commencement of the week an elongated and complex cyclonic system travelled northwards over the United Kingdom, and at the same time gradually dispersed, and as the barometer was relatively high both over Scandinavia and Spain, strong winds or gales from the South-Eastward were experienced over our northern districts, and equally strong winds from the Westward or North-Westward in the south. During all the latter half of the period the weather over our Islands was dominated by a large anticyclone over Scandinavia, and the winds on our more southern and south-eastern coasts became Easterly or North-Easterly, and blew freshly or strongly, while in the northern parts of our Islands they continued fresh or strong from the South-Eastward.

DISTRICTS.	NAMES OF STATIONS.	Temperature.							Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.							Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).							
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	42	32	39.9	35.4	37.7	- 3.1	0	30	2	0.15	- 0.85	*	*	*
	Stornoway	52	35	47.0	38.8	43.0	+ 2.4	21	10	3	0.70	- 0.57	8.8	+ 2.6	19 + 6
	Wick	47	36	42.1	38.4	40.3	+ 0.6	0	13	4	0.34	- 0.36	*	*	*
	Laing	46	24	37.5	32.0	34.9	- 1.8	0	50	2	1.51	+ 0.64	*	*	*
	Glencarron	49	22	41.5	31.5	36.7	- 1.8	0	37	3	0.51	- 1.76	*	*	*
	Fort Augustus	50	26	42.3	34.3	38.7	- 1.1	1	26	2	0.11	- 1.04	12.7	+ 9.7	27 + 20
1. SCOTLAND, E.	Fort William	50	31	42.8	37.5	40.3	- 0.6	2	17	1	0.23	- 1.85	5.6	+ 1.4	12 + 3
	Nairn	47	24	40.1	32.1	36.3	- 2.6	0	40	1	0.01	- 0.49	*	*	*
	Aberdeen	45	34	40.6	37.0	38.9	- 0.7	0	22	5	1.02	+ 0.30	0.4	- 9.8	1 - 21
	Braemar	43	26	35.7	30.6	33.3	- 2.9	0	61	6	1.72	+ 0.92	*	*	*
	Ochertyre	45	16	37.9	29.4	33.8	- 5.0	0	57	5	2.50	+ 1.51	*	*	*
	Leith	46	29	41.1	34.4	37.9	- 3.0	0	29	3	0.20	- 0.25	*	*	*
2. ENGLAND, N.E.	Marchmont	43	26	38.0	32.4	35.3	- 3.0	0	47	4	0.96	+ 0.23	2.3	- 0.7	5 - 14
	Alnwick Castle	45	31	39.7	34.7	37.3	- 2.9	0	33	6	2.24	+ 1.52	*	*	*
	Durham	45	27	38.9	34.9	37.0	- 2.5	0	35	5	1.20	+ 0.60	6.6	- 3.9	13 - 8
	Shields	47	34	42.3	37.6	40.0	- 0.7	1	16	5	1.42	+ 0.88	*	*	*
	Scarborough	46	31	41.4	35.1	38.4	- 2.7	0	25	6	1.43	+ 0.80	4.1	-	8 -
	Spurn Head	47	31	41.1	36.7	39.0	- 2.5	0	21	6	0.96	+ 0.49	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	46	20	38.4	32.1	35.4	- 3.7	0	6	4	0.76	+ 0.31	8.3	-	15 -
	Hillington	46	18	40.0	31.8	36.1	- 3.6	0	41	5	0.76	+ 0.18	13.5	+ 2.8	25 + 5
	Yarmouth	47	28	40.9	35.0	38.1	- 2.8	0	27	5	1.56	+ 0.96	*	*	*
	Geldeston	48	26	41.0	34.0	37.6	- 3.2	0	31	4	1.06	+ 0.52	9.7	- 2.7	18 - 5
	Cambridge	51	19	40.9	30.3	35.8	- 4.4	0	43	3	0.55	+ 0.13	13.8	+ 2.6	25 + 5
	Felixstowe	48	28	39.8	35.9	37.9	- 3.5	0	29	5	1.24	-	9.6†	-	17† -
4. MIDLAND COUNTIES	Rothamsted	49	24	39.3	32.8	36.2	- 3.8	0	41	4	0.54	- 0.04	12.1	+ 0.7	22 + 1
	Harrogate	45	26	37.6	32.1	35.0	- 4.5	0	49	4	1.03	+ 0.33	7.6	-	14 -
	Bawtry (Hesley Hall)	47	22	41.6	33.6	37.8	- 2.0	0	29	3	1.38	+ 0.91	*	*	*
	Loughborough	50	23	39.4	30.9	35.3	- 5.0	0	47	4	0.76	+ 0.23	*	*	*
	Colly Weston (Stamford)	48	23	39.1	32.4	35.9	- 3.9	0	43	5	0.71	+ 0.20	*	*	*
	Cheadle	47	24	38.0	31.0	34.6	- 4.6	0	52	2	0.92	+ 0.21	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	48	24	39.2	32.6	36.0	- 4.6	0	42	3	0.71	+ 0.17	6.8	-	12 -
	Churchstoke	48	17	37.9	27.5	32.0	- 7.3	0	64	2	0.54	- 0.20	9.9	- 0.3	18 - 1
	Hereford	50	19	38.6	30.6	34.8	- 6.0	0	50	2	0.29	- 0.27	*	*	*
	Gloucester	50	21	41.3	31.8	36.7	- 3.1	0	37	3	0.40	- 0.26	8.7	- 2.0	16 - 4
	Oxford	50	23	40.3	33.1	36.8	- 3.9	0	36	3	0.28	- 0.23	11.3	+ 0.3	21 + 1
	London	50	27	41.4	35.6	38.6	- 3.0	0	24	3	0.40	- 0.10	5.7†	- 0.5†	10† - 1†
6. SCOTLAND, W.	Swarraton (Alresford)	51	20	40.4	32.6	36.7	- 3.5	0	37	2	0.78	+ 0.08	*	*	*
	Dungeness	52	25	43.0	35.7	39.5	- 3.3	3	24	3	1.77	+ 1.24	3.8	-	7 -
	Hastings (St. Leonards)	51	23	41.2	34.1	37.8	- 5.0	0	29	4	1.07	+ 0.37	4.5	- 9.9	8 - 18
	Southampton	53	24	42.9	33.8	38.5	- 4.2	3	30	3	0.73	0.00	11.9	- 0.4	21 - 1
	Portland Bill	53	27	43.3	36.3	39.9	- 3.9	4	22	3	0.78	-	*	*	*
	Shaftesbury	50	23	39.8	33.1	36.6	- 3.0	0	38	3	1.02	+ 0.26	*	*	*
7. ENGLAND, N.W.	Landale (Loch Sunart)	49	32	42.2	37.7	40.0	- 1.9	1	16	2	0.84	- 1.24	*	*	*
	Glasgow	46	29	39.5	34.0	36.9	- 3.3	0	36	2	1.33	+ 0.29	0.1	- 4.6	0 - 9
	Cally	45	25	40.5	33.0	36.9	- 3.6	0	36	2	0.86	- 0.34	*	*	*
	Douglas (Isle of Man)	49	33	42.9	37.7	40.4	- 2.7	3	16	1	1.30	+ 0.23	7.2	- 3.8	14 - 7
	Newton Reigny	43	18	38.0	29.1	33.7	- 5.5	0	58	2	0.52	-	8.3	-	16 -
	Stonyhurst	45	26	38.7	32.9	35.9	- 4.5	0	43	2	0.64	- 0.44	6.0	- 1.6	11 - 3
8. ENGLAND, S.W.	Blackpool	48	22	40.6	32.8	36.9	- 4.5	0	36	4	0.78	+ 0.04	10.7	+ 3.3	20 + 6
	Manchester (Prestwich)	46	26	39.4	32.6	36.1	- 4.4	0	41	2	0.70	- 0.14	5.7	-	11 -
	Liverpool Obs. (Bidston)	48	27	40.0	34.7	37.5	- 4.3	0	32	3	0.63	+ 0.01	*	*	*
	Chester	50	23	45.1	33.3	39.4	- 3.1	9	34	3	0.58	-	*	*	*
	Llandudno	50	23	42.4	33.3	38.3	- 5.5	1	30	3	0.41	- 0.32	16.4	+ 6.9	30 + 13
	Holyhead	49	26	42.0	35.7	39.0	- 5.6	0	21	2	0.45	- 0.44	*	*	*
9. IRELAND, N.	Llandoverly	51	21	44.9	31.6	38.5	- 2.2	8	40	3	0.19	- 1.04	*	*	*
	Pembroke	53	30	45.1	37.9	41.6	- 4.0	9	17	3	0.85	- 0.09	14.4	+ 2.7	26 + 5
	Clifton	52	23	41.3	33.2	37.4	- 4.3	0	32	3	0.35	- 0.41	*	*	*
	Bath	53	22	41.7	32.7	37.4	- 4.4	0	32	2	0.33	- 0.35	10.2	-	18 -
	Arlington (N. Devon)	51	24	41.7	32.6	37.3	- 4.8	0	33	3	1.11	- 0.29	*	*	*
	Cullompton	53	22	42.6	32.5	37.8	- 3.5	2	35	3	0.79	- 0.06	17.0	+ 6.9	30 + 12
10. IRELAND, S.	Falmouth	54	32	46.7	38.7	42.9	- 3.2	20	9	3	1.30	+ 0.06	17.6	+ 3.3	31 + 6
	Plymouth	54	29	44.6	36.2	40.6	- 4.0	7	24	3	1.45	+ 0.54	22.4	+ 9.7	39 + 17
	Malin Head	48	32	42.1	37.7	40.0	- 3.3	0	16	3	0.36	- 0.38	*	*	*
	Edenfel (Omagh)	45	27	40.4	33.0	36.9	- 2.7	0	36	2	0.77	- 0.07	*	*	*
	Blacksod Point	50	35	45.4	38.1	41.9	- 2.4	10	17	4	0.80	- 0.52	*	*	*
	Markree Castle	48	28	43.2	32.0	37.8	- 3.3	3	37	4	1.05	+ 0.11	14.2	+ 4.3	27 + 8
CHANNEL ISLANDS	Armagh	48	28	42.6	34.4	38.7	- 1.9	2	28	2	0.41	- 0.26	13.3	+ 2.9	25 + 6
	Donaghadee	49	33	44.4	39.1	41.9	- 0.7	7	13	2	0.91	+ 0.22	*	*	*
	Dublin	51	33	44.2	37.5	41.0	- 2.3	6	18	2	0.27	- 0.29	13.1	- 0.6	24 - 1
	Parsonstown	51	29	42.7	32.9	38.0	- 3.5	2	34	5	0.55	- 0.17	15.1	+ 3.2	28 + 6
	Kilkenny	53	30	43.7	34.7	39.4	- 3.1	5	28	3	0.45	- 0.28	*	*	*
	Roche's Point	53	33	48.6	39.7	44.3	- 1.2	26	6	4	0.66	- 0.52	*	*	*
CHANNEL ISLANDS	Valencia	52	30	49.6	37.1	43.6	- 2.8	2	14	7	2.35	+ 0.96	5.7	- 6.1	10 - 11
	Killarney	52	34	47.4	37.5	42.7	- 1.8	24	13	3	1.14	- 0.44	*	*	*
	Foynes	-	-	-	-	-	-	-	-	-	-	-	*	*	*
	Scilly (St. Mary's)	55	37	49.9	43.0	46.6	- 1.8	32	0	3	0.82	- 0.10	12.9	-	23 -
	Jersey	55	28	45.4	39.0	42.3	- 3.6	15	8	4	1.05	+ 0.15	13.6	- 1.7	23 - 3

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

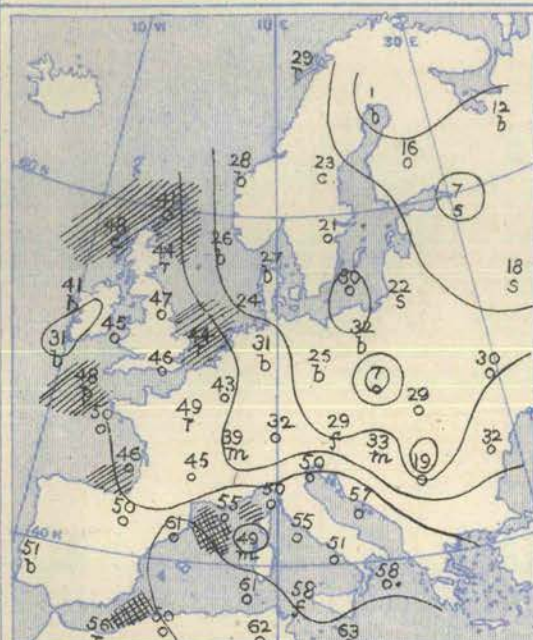
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 30th November.

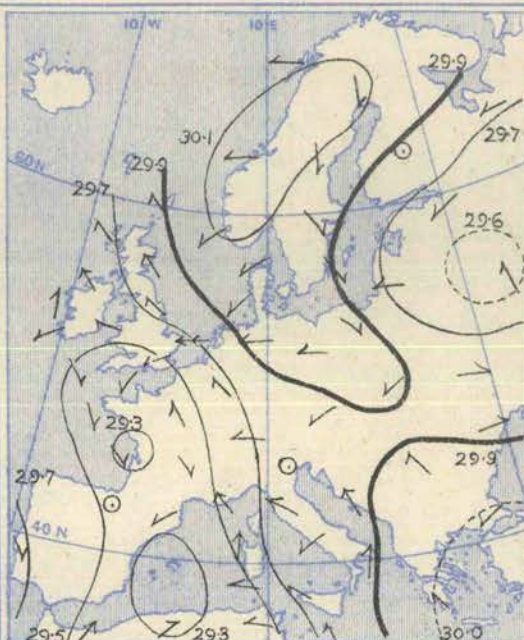
Temperature and Weather.

8 a.m.

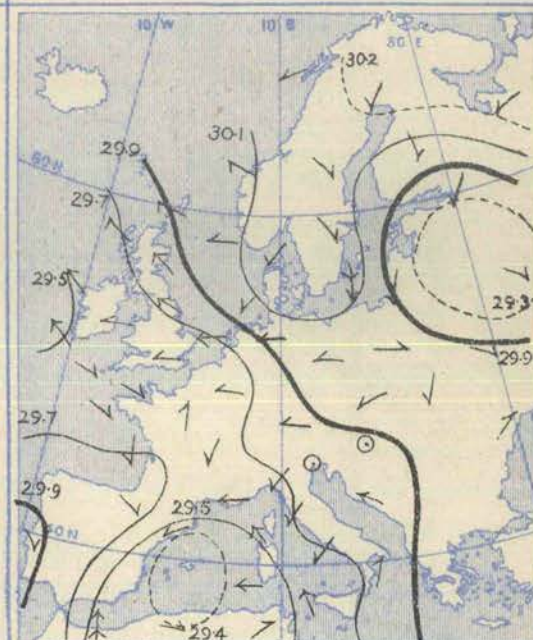


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain in the east of Scotland and the eastern and central parts of Great Britain, as well as in central France; snow falling at several of the Russian stations. Fine in the west of Ireland, and also in Norway, Denmark, and North Germany. Rain falling during day in most parts of England and Ireland, as well as in France and southern Europe; sky clearing in the north-western parts of the United Kingdom.

Temperature risen in France and Italy, fallen in Denmark and Germany, changed very irregularly elsewhere. Morning readings highest, 63° at Malta, 62° at La Calle and Tunis, and 61° at Barcelona, Cagliari, and Sfax; above 50° at most of the Mediterranean, Adriatic, and Spanish coast stations. Lowest, 1° at Haparanda, 7° at Hangö, St. Petersburg, and Warsaw, and 10° at Uleaborg; frost prevailing over northern, eastern, and central Europe generally. Rising during day to 50° or slightly above it on several parts of our western and southern coasts; exceeding 60° in many parts of southern Europe, and reaching 66° at Malta.

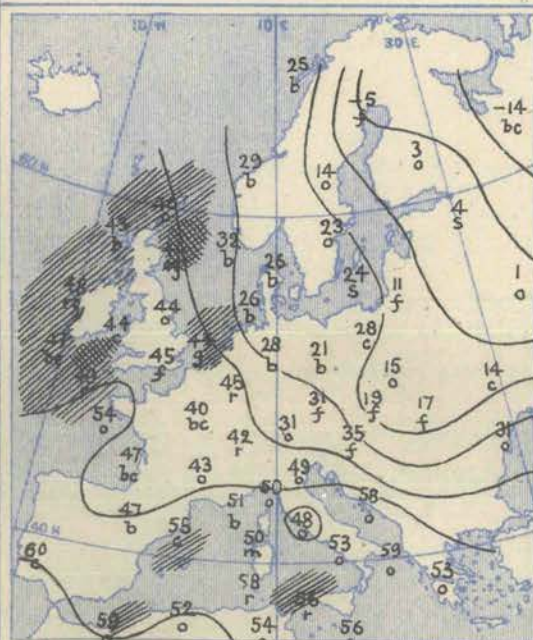
Wind Easterly or North-Easterly over Denmark, Germany, the Netherlands, and the greater part of England, and strong in force on our eastern coasts, with a gale at Yarmouth; moderate to strong from the South-Eastward in the northern parts of the United Kingdom. Northerly or North-Westerly over Sweden and Finland; Westerly in the south of Russia. South-Easterly over central and southern France, but North-Westerly in the west of that country, and also over the Spanish Peninsula. Freshening South-Easterly winds setting in later over Ireland; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in an anticyclone lying over Norway and the north of Sweden. Lowest, 29.3 ins. and less in two depressions—one lying over the west of France, and the other over the western parts of the Mediterranean; 29.6 ins. and less in another disturbance over central Russia. Depression over France moving northwards later, but partially filling up, but new disturbance beginning to approach our extreme western coasts; depression over central Russia becoming somewhat shallower.

Monday, 1st December.

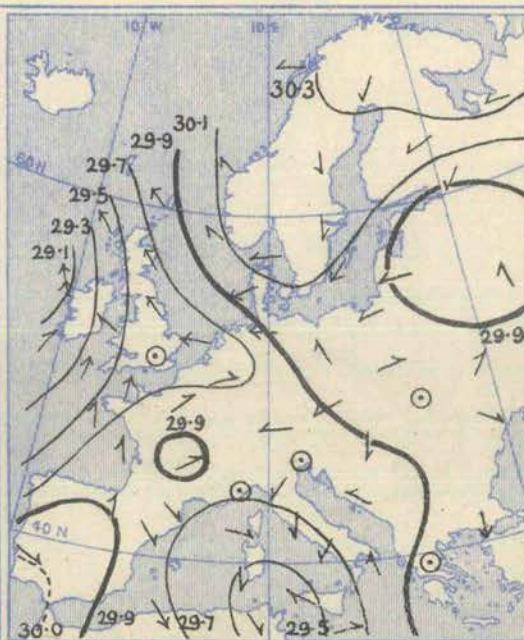
Temperature and Weather.

8 a.m.

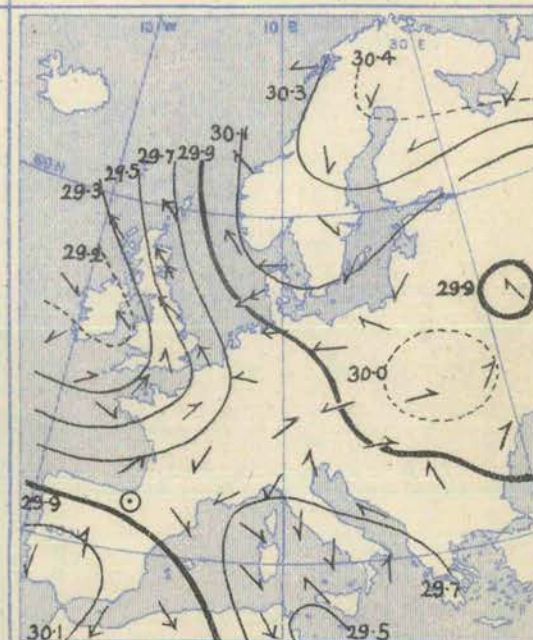


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with fog in the south-east of England, and also in Austria; rain falling in the north of Ireland and in Belgium and western Germany; snow reported at Wisby and St. Petersburg. Fine over Norway and Denmark. Rain falling later over western Europe generally—heavily in many places; snow reported over the Baltic and several parts of central Europe. Thunder and lightning occurring at Scilly, and lightning only at Pembroke.

Temperature fallen in most places. Morning readings highest, 62° at Algiers, 60° at Lisbon, and 59° at Brindisi and Oran; above 50° at most of the Mediterranean, Adriatic, and Spanish coast stations. Lowest, -14° at Archangel, -5° at Haparanda, +1 at Helsingfors and Moscow, and 2° at Kharkov; below 20° in most parts of Sweden, Russia, and eastern Germany, and below the freezing point over northern, eastern, and central Europe generally. Rising during day to 50° and upwards on many parts of our own western and southern coasts, exceeding 60° over southern Europe as a whole, and reaching 67° at Palermo. Remaining below the freezing point all day in most of the northern countries.

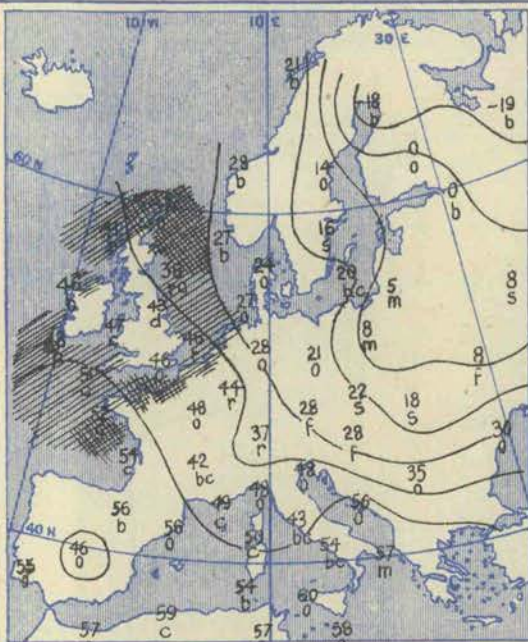
Wind Easterly over Denmark, Germany, Austria, and the greater part of England; strong to a gale from the South-Eastward on our own western and northern coasts. Northerly in Sweden, and North-Easterly over northern Russia. Light to moderate from the Southward in France; variable over Italy and the Spanish Peninsula. Subsequently increasing to a strong breeze from the South-Westward in the English Channel; blowing a strong gale from South-East in the east of Scotland.

Barometer highest, 30.3 ins. and upwards over the extreme northern parts of Sweden and Russia; 30.0 ins. and upwards in the south-west of Spain. Lowest, 29.1 ins. and less in a well-marked and rather deep depression lying off the west of Ireland; 29.5 ins. and less in another disturbance over the central parts of the Mediterranean; 29.9 ins. and less in a shallow system over western Russia. Depression off our west coasts subsequently moving northwards; small secondary system travelling in a similar direction over the western parts of Great Britain.

Tuesday, 2nd December.

Temperature and Weather.

8 a.m.

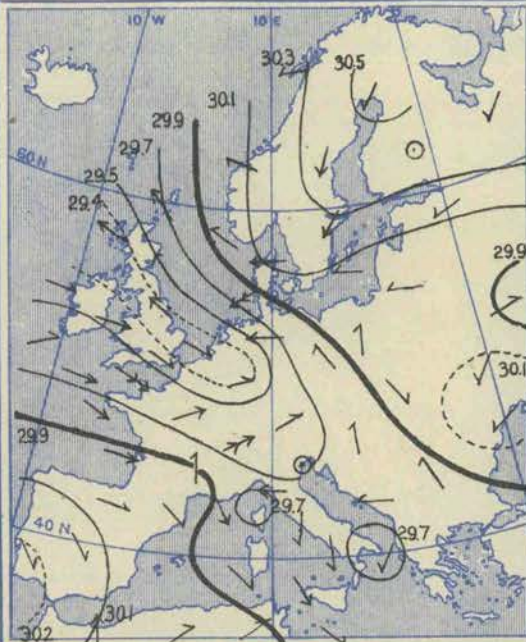


Weather in morning cloudy or dull generally, but fine and bright at a few stations in the extreme north. Rainy in many parts of our Islands, the Netherlands and western Germany, and snow falling at Stockholm and over central Europe. Remaining dry all day over the Mediterranean and the adjacent countries, but rain or snow experienced in most northern and central regions—as much as 0.75 in. at Lorient, and 0.51 in. (of snow) at Breslau.

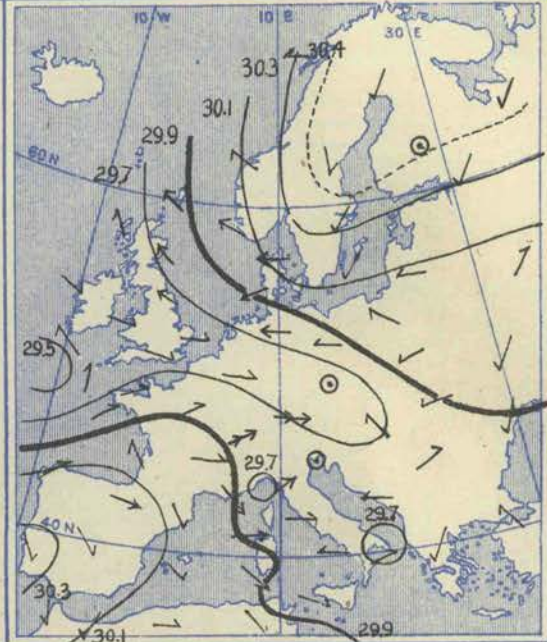
Temperature changed irregularly. Readings at 8 a.m., highest, 60° at Palermo, 59° at Algiers, 56° at Biarritz and Pesaro, 52° in Brittany. Lowest, -19° at Archangel, -18° at Haparanda, 0° (zero) at St. Petersburg, +5° at Memel, 8° at Kiev, 15° Warsaw, and 21° at Berlin. Much below 32° over the whole of Scandinavia, Russia, and central Europe. Rising during day to 50° or above on our own south and south-west coasts, to 60° in the extreme south of France, and in the south of Italy, 66° at Palermo, 68° at Palma, and to 70° on the Algerian coast. Continuing very low all day over the north, east, and centre of the continent.

Barometer and Wind.

8 a.m.



6 p.m.



Wind in morning strong to a gale from the Westward over the south and west of the United Kingdom and France, drawing into South-West over the west of Germany and blowing with moderate force, and into East or South-East (strong to a gale) to the eastward of the North Sea and over the north of our Islands. Strong from North-East over the Gulf of Bothnia. Cyclonic, moderate to fresh, over Italy and the Gulf of Genoa. Backing to South or South-East on our own south-west coasts by evening, and increasing to a fresh gale from the Westward at Munich. No important change elsewhere.

Barometer at 8 a.m., highest, 30.5 ins. in Lapland and the Arctic regions of Russia, above 30.2 ins. over and off the south-west coast of Spain, and above 30.0 inches in the south of Russia. Lowest, 29.4 ins. and less, in a long and complex cyclonic system, extending north-westwards from the Netherlands across our Islands to the Atlantic. Below 29.7 ins. in two shallow disturbances over southern Europe. A fresh depression appearing off our south-west coasts later and moving south-eastwards. Barometer rising briskly within the elongated cyclonic disturbance.

Wednesday, 3rd December.

Temperature and Weather.

8 a.m.

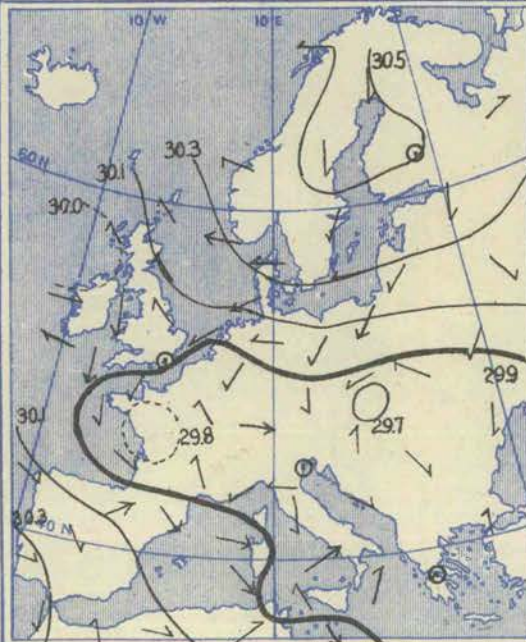


Weather in morning varying greatly in different localities, but mostly cloudy or dull; fog or mist and slight rain reported in many parts of England; rain falling also at Limoges, Biarritz, and Nicolaieff, and snow at Wisby, Breslau, and Cracow; thunderstorm reported at Lésina. Fine in the north of Ireland and the west of Norway, as well as at many stations in southern Europe. Snow or sleet falling later in several parts of Great Britain, and rain over the southern parts of France and Italy; thunderstorms occurring at Biarritz and Sanguinaire.

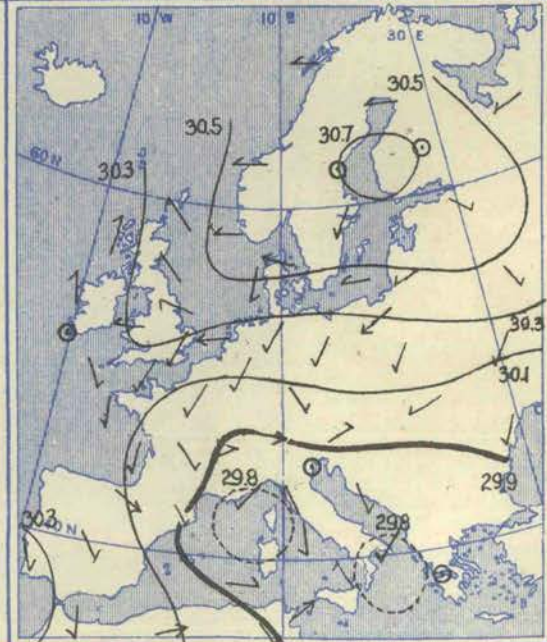
Temperature fallen generally, but risen in Austria. Morning readings highest, 61° at Algiers, and 60° at Palma, Nemours, Oran, and Malta; above 50° at most of the Mediterranean, Adriatic, and Spanish coast stations, and also in the Scilly Islands. Lowest, -22° at Haparanda, -9° at Moscow, -8° at Helsingfors; below zero in many parts of Russia, and below 20° in Sweden and Germany. Daily maxima below 40° in many parts of Great Britain, and below the freezing point over northern and central Europe; exceeding 50° in the west of France and over southern Europe, and reaching 66° at Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



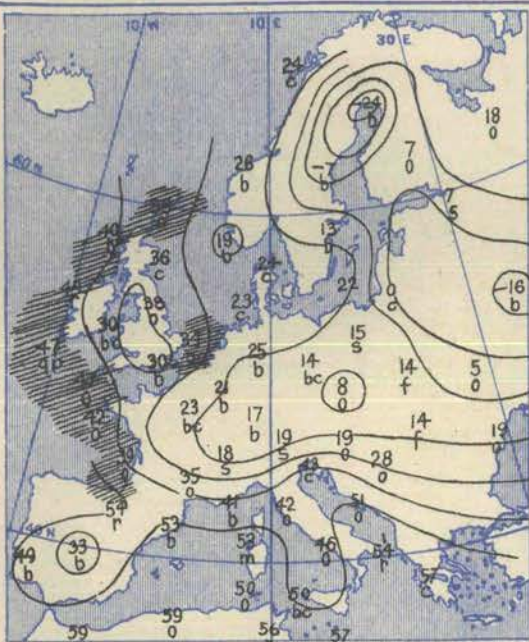
Wind North-Easterly or Northerly over northern and central Europe, and also over the Netherlands and the south and east of England; strong from the Eastward on our east coasts; variable in Ireland; South-Easterly in Scotland, with a gale at Wick. Cyclonic circulation of light winds reported over France; North-Westerly winds over the Spanish Peninsula; South-Westerly in Italy. Northerly breezes setting in later over nearly the whole of France; no important change occurring elsewhere.

Barometer highest, 35.5 ins. and upwards over the northern parts of Finland and Sweden, 30.1 ins. and upwards in an anticyclone covering the whole of northern Europe, 30.3 ins. and upwards in another high-pressure system off the south-west of Spain. Lowest, 29.8 ins. and less in a cyclonic disturbance over the west of France, and also in a large shallow area covering the whole of south-eastern Europe. French depression subsequently moving south-eastwards. Another low-pressure area forming over southern Italy.

Thursday, 4th December.

Temperature and Weather.

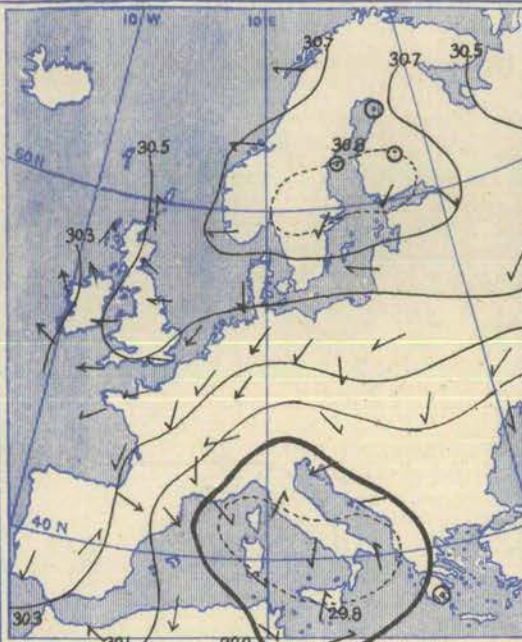
8 a.m.



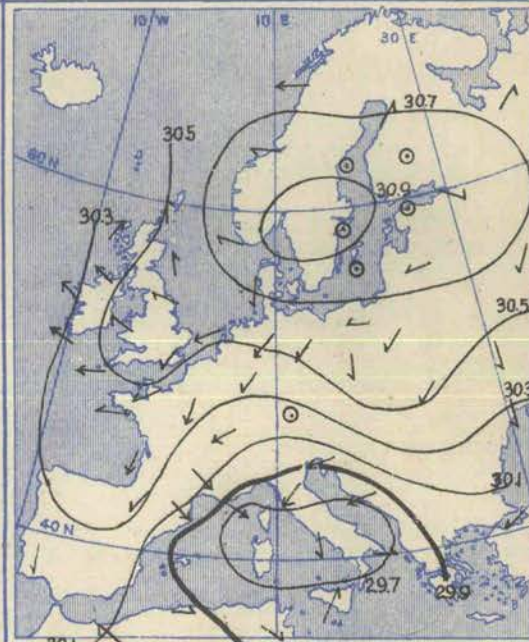
Weather at 8 a.m. fine and bright over Scandinavia, in several parts of Scotland, in Spain, and the Riviera. Cloudy or dull elsewhere, with rain at Biarritz and Brindisi, sleet or snow in some Irish and English localities, and snow in Gothland, at St. Petersburg, Neu-Fahrwasser, Lemberg, and Belfort and Munich. Snow experienced later in various parts of the United Kingdom, France, and other parts of Europe, and rain on the shores of the Mediterranean. Temperature risen in Ireland, Finland, and at Bodö; fallen very decidedly in most other regions. Readings at 8 a.m. lowest, -24° at Haparanda, -18° at Moscow, 0° (zero) at Memel, +5° at Kiev, 14° at Breslau and Berlin, 23° at Paris, 22° at Newton Reigny, 27° or 28° over central England, and 30° in London. Rising subsequently to 49° at Stornoway and Valencia Island, to 50° at Croisette, 59° at Nice, 66° at Palermo, 68° at Oran, and to 70° at Nemours. Not exceeding 36° at Loughborough and in London, and remaining much below freezing point over the major portion of the Continent. Maximum at Paris 28°, and at Berlin and Frankfurt 19°.

Barometer and Wind.

8 a.m.



6 p.m.



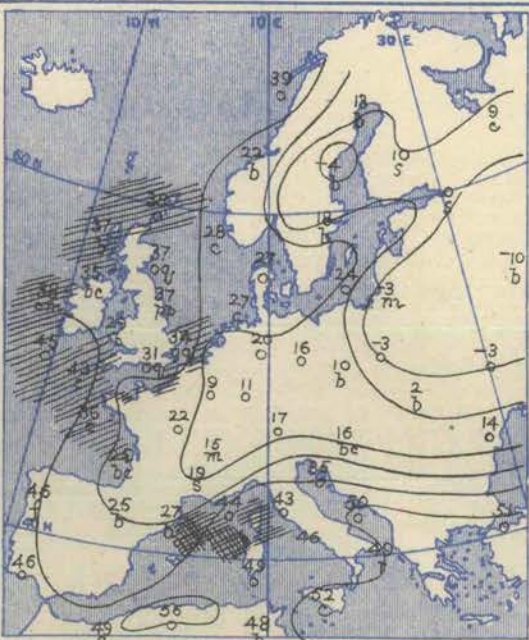
Wind North-Easterly or Easterly in most regions, but drawing into South-East or South on our own western and northern coasts, into North-West in the south of France, and into South-East at Brindisi. Calm or variable in the north of Scandinavia. Fresh or strong in force at some of our own stations, and also in France and Germany; light or moderate elsewhere. Very little change in direction later, but force increasing considerably over Italy, the south-east of France, and the north of Spain, as well as on our own south-east, west, and northern coasts.

Barometer fallen in Algeria and its immediate neighbourhood, but risen briskly generally. 8 a.m. readings ranging from 30.8 ins. in the centre of an anticyclone over Sweden and Finland, to 29.8 ins. and less in an irregularly shaped low-pressure area over Italy, the Gulf of Genoa, and the Tyrrhenian Sea. Barometer falling in these regions later, and rising within the anticyclonic area. Gradients becoming very steep over the south-east of France.

Friday, 5th December.

Temperature and Weather.

8 a.m.

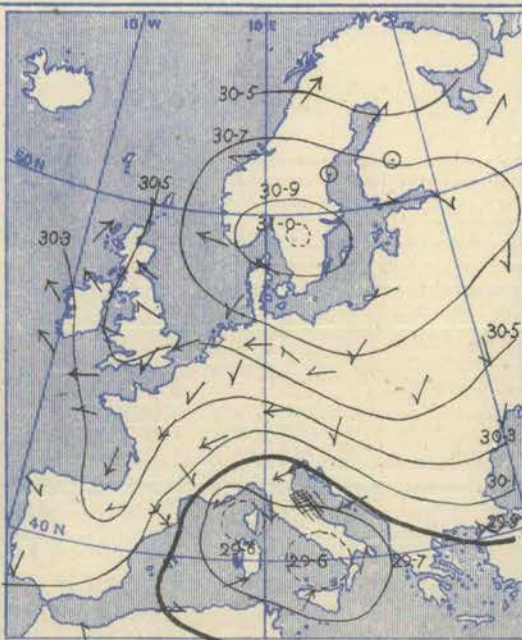


Weather in morning fair or fine over western and northern Europe generally, but snow and hail showers reported on the north-east coasts of England. Dull in most of the central and southern countries, with rain at several of the Italian stations, and snow at Lyons and Bilbao. Snow or sleet showers falling later in several isolated parts of Great Britain, and considerable quantities of rain in Italy—as much as 2.2 ins. at Brindisi.

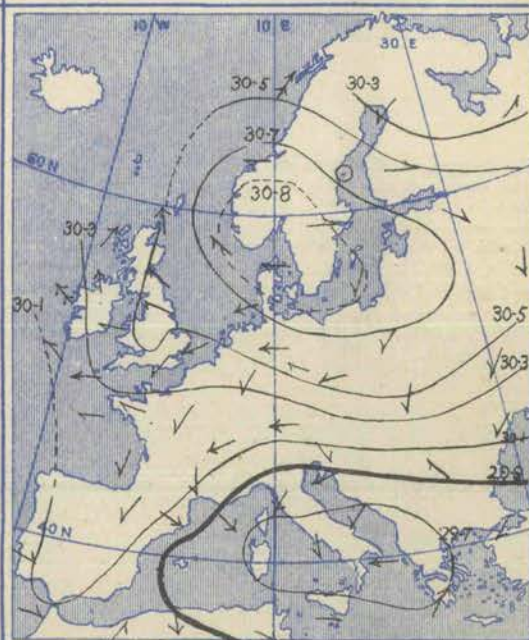
Temperature fallen generally—quickly over central and southern France, but risen quickly in the north of Scandinavia. Morning readings highest, 56° at Algiers, 55° at Oran, and 53° at Malta; above 50° at several of the Mediterranean stations. Lowest -10° at Moscow, -4° at Haparanda, and -3° at Memel and Kiev; below 20° over Germany, the Netherlands, and central France, as well as at Newton Reigny (Penrith), and below the freezing point in most parts of Great Britain. Hard frost continuing all day over northern and central Europe, and slight frost in several parts of England, but thermometer rising to 40° at Sumburgh Head and Stornoway, and to 41° at Bodö.

Barometer and Wind.

8 a.m.



6 p.m.

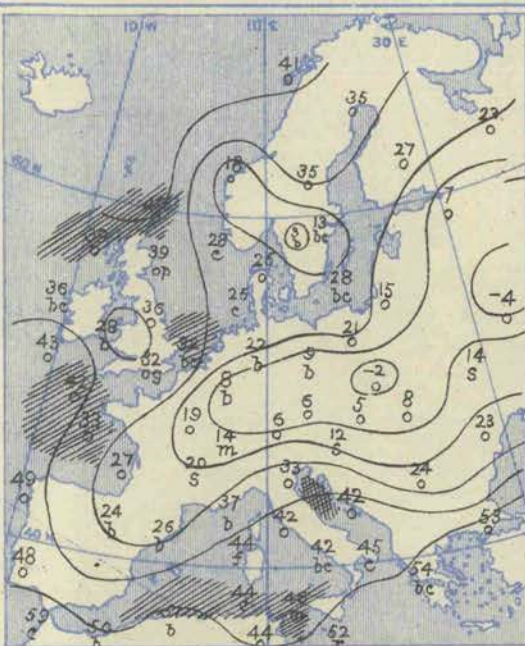


Wind Easterly or North-Easterly over England and the greater part of central and southern Europe; blowing a gale from the Eastward at the Helder and at Trieste, and from the North-Westward at Perpignan. Fresh to strong from the South-Eastward in Ireland, and from the Southward in the north of Scotland. Light from the Westward or South-Westward over northern Russia, but from the North-Westward or Northward in the south of that country. No decided change occurring later, but gale subsiding at the Helder and Trieste. Barometer highest, 31.01 ins. at Karlstadt, 30.9 ins. and upwards over the southern parts of Scandinavia generally, 30.3 ins. and upwards in an anticyclone covering nearly the whole of northern and north-western Europe. Lowest, 29.6 ins. and less in two cyclonic areas—one lying over the Gulf of Genoa, and the other over southern Italy. Anticyclone subsequently becoming reduced in intensity, but cyclonic systems beginning to disperse; barometer consequently falling over northern, but rising over southern Europe.

Saturday, 6th December.

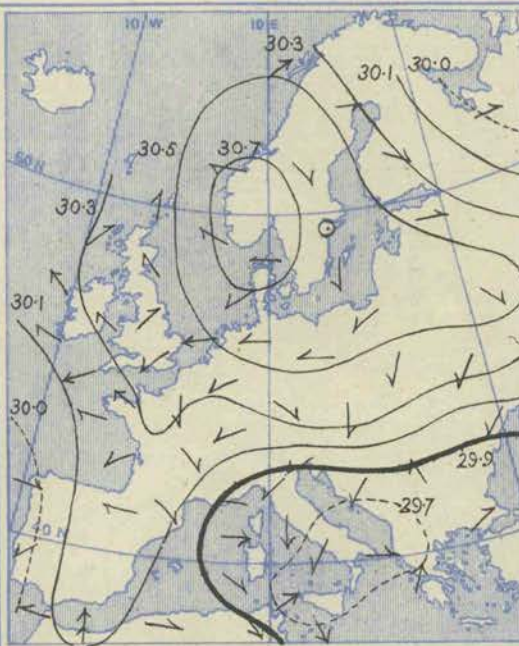
Temperature and Weather.

8 a.m.

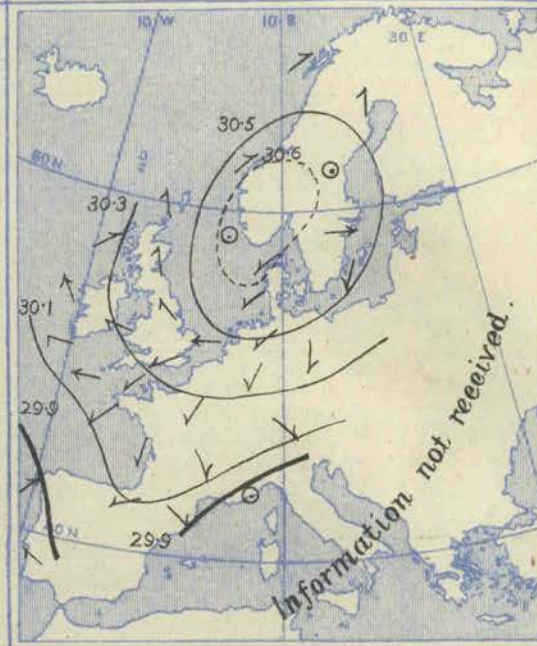


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Germany, the Netherlands, and the north and east of England, as well as over the greater part of southern Europe. Cloudy or dull elsewhere, with passing showers at Aberdeen, and snow at Lyons, as well as at Kiev. Slight rain falling later in the south of Ireland, and snow and hail showers in the north of Scotland; no important change occurring elsewhere.

Temperature changed very irregularly in our Islands; fallen over central and southern Europe, but risen rapidly over the northern parts of Russia and Scandinavia. Morning readings highest, 50° at San Fernando, 54° at Athens, and 52° at Patras and Malta. Lowest, -2° at Moscow, -2° at Warsaw, +1° at Breslau, and 5° at Cracow; below 10° at most of the German stations, and below 20° over central France and the Netherlands; frost prevailing also over Great Britain and central Ireland, the lowest reading in our Islands being 24° at Loughborough. Remaining below the freezing point all day in some parts of central England; sharp frost occurring over Great Britain at night—sheltered thermometer at Loughborough falling to 14°.

Wind light to fresh from the Eastward or North-Eastward over England, France, and the greater part of central Europe, but South-Easterly in Ireland, and Southerly in the north of Scotland; light from the Westward over the northern parts of Sweden and Russia. Variable over the Spanish Peninsula and the extreme south of France; strong from the Westward (South-West to North-West) at most of the Mediterranean stations. No important change occurring during day.

Barometer highest, 30.7 ins. and upwards over the north of Denmark and the southern parts of Scandinavia; 30.2 ins. and upwards in an anticyclone covering all the more northern parts of the Continent, and extending westwards over nearly the whole of the United Kingdom. Lowest, 29.7 ins. and less in a shallow cyclonic area over southern Italy; 30.0 ins. and less in Portugal, and also in the extreme north of Russia. Anticyclone giving way slowly during day, but general distribution of pressure over western Europe remaining unchanged.

GENERAL NOTES.

At the commencement of the week an anticyclone lay over Scandinavia, while shallow low-pressure systems existed over central Russia, and over France and the western parts of the Mediterranean. On Monday a second anticyclonic area appeared over the southern parts of the Spanish Peninsula, while a large and rather deep depression advanced to our own extreme western coasts, the wind increasing to a gale from the Southward or South-Eastward in the western and northern parts of the United Kingdom generally, with heavy rain in many places. The depression soon moved northwards, but in its rear numerous secondary disturbances were developed over our Islands, these gradually merging into one long trough, which stretched from north-west to south-east directly across Great Britain. On Tuesday a new cyclonic area

appeared off our south-west coasts, but this proved to be shallow, and soon moved south-eastwards across France. In its rear a decided rise of the barometer took place over western Europe, the change being due, apparently, to the extension westwards and southwards of the large anticyclone previously existing over Scandinavia. In Ireland and Scotland the wind remained South-Easterly, but over England it shifted to the Eastward or North-Eastward, a decided fall of temperature occurring in nearly all parts of Europe, with slight snow in several places. Towards the close of the week a large and complex depression was developed over Italy and the neighbouring parts of the Mediterranean, the wind on Friday increasing to a gale from the Eastward in the Adriatic, and from the North-Westward in the extreme south of France.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ————— = a gale; ————— = a fresh to strong breeze; ————— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 290.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNES.	2.5	- 4.4	6	- 10	WORKSOP.	8.8	+ 0.4	16	+ 1	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA.	10.0	+ 2.0	21	+ 4	THURCASTON.	15.5	+ 6.7	29	+ 12	SOUTHPORT.	2.4	—	5	—
EDINBURGH.	0.1	- 6.9	0	- 14	MARGATE.	3.4	- 8.4	6	- 15	RHYL.	22.7	—	42	—
MORPETH.	1.0	—	2	—	BROADSTAIRS.	2.9	—	5	—	COLWYN BAY.	—	—	—	—
NEWCASTLE-ON-TYNE.	0.2	—	0	—	EASTBOURNE.	6.3	- 7.0	11	- 13	ABERDOVEY.	18.2†	—	34†	—
YORK.	6.1	- 0.9	11	- 2	BRIGHTON.	9.4	- 3.6	17	- 6	TENBY.	17.4	+ 5.8	32	+ 11
CROMER.	11.5	—	21	—	WORTHING.	13.0	—	23	—	NEWQUAY.	21.8	+ 8.0	38	+ 14
LOWESTOFT.	7.9	—	14	—	BOGNOR.	7.9†	—	14†	—	TORQUAY.	18.3	+ 5.4	32	+ 10
DUNMOW.	8.5	—	16	—	WATERGATE.	12.5	—	23	—	GUERNSEY.	6.1†	- 5.7	11†	- 10
HOLLESLEY BAY.	8.0	—	15	—	WESTBOURNE.	11.7†	- 0.7	21†	- 1					
SHEFFIELD.	5.9	—	11	—	VENTNOR HOSPITAL.	12.1	- 0.6	22	- 1					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 50.]
Fourth Series.

WEEK ENDING SATURDAY, DECEMBER 13TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The Daily Mean is obtained from the maxima and minima by applying a suitable correction determined for each month. The Mean for the Week is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The Means with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The Mean Amounts are those for the corresponding periods in the thirty-five years 1866-1900, but the Mean numbers of Rainy Days are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The Mean Values employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 296.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	18	40·5	29·4	35·2	4 below	Day-deg. 0	Day-deg. - 9	Day-deg. 48	Day-deg. +16	Day-deg. 1862	Day-deg. -154	Day-deg. 768	Day-deg. + 23
	1. SCOTLAND, EAST	51	14	38·8	28·9	34·0	4 below	0	- 10	56	+21	2014	-356	909	+ 76
	2. ENGLAND, N.E.	50	20	41·2	34·0	37·7	2 below	0	-11	30	+ 1	2438	-163	611	- 43
	3. ENGLAND, EAST	50	16	39·0	30·7	35·0	4 below	0	-13	49	+17	2857	-150	652	- 68
	4. MIDLAND COUNTIES	51	14	38·3	28·8	33·7	5 below	0	-13	58	+25	2709	-233	683	- 67
5. ENGLAND, SOUTH	52	17	39·0	29·5	34·5	6 below	0	-18	53	+30	3046	-279	477	- 44	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	18	40·4	32·3	36·5	4 below	0	-15	39	+18	2376	-165	575	+ 18
	7. ENGLAND, N.W.	53	17	40·6	31·4	36·2	5 below	0	-15	41	+19	2610	-187	529	+ 9
	8. ENGLAND, S.W.	57	21	41·3	31·8	36·8	5 below	0	-23	36	+21	3004	-138	415	+ 23
	9. IRELAND, NORTH	53	21	42·7	35·2	39·1	2 below	2	-14	25	+ 5	2495	-197	405	- 76
	10. IRELAND, SOUTH	55	22	45·1	36·9	41·1	2 below	9	-16	21	+ 6	3051	- 43	294	- 62
— CHANNEL ISLANDS	55	27	44·2	35·7	40·1	6 below	6	-30	25	+21	3660	- 68	136	- 1	

DISTRICTS. (See p. 296.)		Rainfall.								Bright Sunshine.								
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	10ths of in. 3	11 less	235	+14	41·6	- 6·7	11	+ 6	25	+14	1099	- 11	25	0		
	1. SCOTLAND, EAST	3	2	5 less	202	+14	24·1	- 6·2	5	- 2	11	- 5	1113	-171	26	- 4		
	2. ENGLAND, N.E.	2	1	5 less	174	0	20·7	- 3·8	1	- 7	2	-13	1194	- 70	28	- 2		
	3. ENGLAND, EAST	3	1	4 less	168	- 8	21·2	- 3·1	4	- 6	8	-12	1540	- 78	34	- 2		
	4. MIDLAND COUNTIES	2	1	5 less	169	+ 1	23·2	- 3·6	3	- 5	5	-10	1268	- 54	31	- 1		
5. ENGLAND, SOUTH	2	1	5 less	167	+ 3	24·3	- 2·9	8	- 4	14	- 8	1551	-120	35	- 3			
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	6	8 less	213	+17	47·1	- 1·6	4	- 3	8	- 6	1219	-108	28	- 3		
	7. ENGLAND, N.W.	2	1	7 less	198	+14	26·3	- 7·4	7	+ 1	14	+ 2	1434	+ 97	34	+ 2		
	8. ENGLAND, S.W.	3	2	8 less	184	- 6	30·7	- 8·0	3	- 9	6	-16	1518	-112	36	- 3		
	9. IRELAND, NORTH	2	3	6 less	233	+16	33·7	- 0·9	12	+ 4	24	+ 7	1225	- 27	28	- 1		
	10. IRELAND, SOUTH	3	4	6 less	197	- 2	33·6	- 5·5	10	- 2	19	- 3	1385	- 50	32	- 1		
— CHANNEL ISLANDS	5	5	4 less	199	+ 7	27·2	- 4·6	7	- 2	13	- 4	1712	-179	40	- 4			

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather continued dry in most districts until past the middle of the week, although slight sleet or snow was experienced at times in the east and south-east. On Thursday rain commenced to fall at some of the extreme western and south-western stations, and by the following day had spread to all parts of the Kingdom. Thunder and lightning, accompanied by sleet, occurred on Saturday in the Hebrides.

Temperature was much below the mean until Friday, when it rose rapidly. In England S. and the Channel Islands the average for the week was as much as 6° below the mean value, and in most other districts 4° or 5° below. Over Ireland and England N.E., however, the deficit was only 2°. The highest of the maxima were recorded on the 13th, when they varied from 49° in Scotland N. to 55° in Scotland W., Ireland S., and the Channel Islands, and to 57° in England S.W. The lowest of the minima, registered, as a rule, on the 7th, were as low as 14° in Scotland E. and the Midland Counties, 16° in England E., and 17° in England S. and N.W.; while elsewhere they varied between 18° in Scotland N. and 27° in the Channel Islands.

Rainfall was less than the mean in all districts. Over England and the east of Scotland the fall was extremely slight.

Bright Sunshine was very deficient generally, but exceeded the normal amount in Scotland N., England N.W., and Ireland N. The percentage of the possible duration ranged from 25 in Scotland N. and 24 in Ireland N. to less than 10 in most parts of England, and to only 2 in England N.E.

Barometer and Wind.—During the greater part of the period the weather over our Islands continued to be dominated by the large anticyclonic system noticed over Scandinavia in the previous week. The winds were consequently North-Easterly or Easterly over England, and Easterly or South-Easterly in Ireland; while in Scotland they varied between South-East and South-West. Towards the end of the week, however, cyclonic disturbances, moving north-north-eastwards, appeared off our western coasts, and the anticyclone gave way slowly, while it moved towards the Baltic and Central Europe. With this change in the distribution of pressure the wind veered to the Southward very generally, and increased considerably in force over all our western and north-western districts.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
											Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	46	35	43.4	36.9	40.3	+ 0.2	4	20	1	0.02	- 0.99	*	*	*	*
	Stornoway	49	25	43.7	30.4	37.3	- 2.7	5	44	3	0.43	- 0.85	11.9	+ 5.8	26	+ 13
	Wick	45	24	42.7	32.9	38.0	- 0.7	2	34	2	0.02	- 0.69	*	*	*	*
	Laing	45	19	38.7	25.7	32.5	- 3.1	0	67	1	0.07	- 0.83	*	*	*	*
	Glencarron	47	21	38.2	27.2	32.9	- 4.8	0	64	2	0.25	- 2.04	*	*	*	*
	Fort Augustus	47	18	37.7	24.6	31.4	- 7.5	0	74	2	0.27	- 0.91	9.5	+ 7.2	21	+ 16
	Fort William	48	24	39.4	28.3	34.1	- 6.1	0	55	2	0.84	- 1.35	15.1	+ 12.1	33	+ 26
1. SCOTLAND, E.	Nairn	49	18	37.1	20.7	29.2	- 9.0	0	90	1	0.02	- 0.45	*	*	*	*
	Aberdeen	46	29	41.4	34.9	38.3	- 0.3	0	26	4	0.12	- 0.61	6.2	- 2.9	14	- 6
	Braemar	42	14	33.9	24.5	29.4	- 6.0	0	88	3	0.38	- 0.39	*	*	*	*
	Ochertyre	48	17	39.6	31.3	35.6	- 2.3	0	45	4	0.31	- 0.68	*	*	*	*
	Leith	51	20	42.7	30.9	37.0	- 3.1	2	41	2	0.05	- 0.39	*	*	*	*
	Marchmont	43	23	38.0	31.0	34.6	- 2.9	0	52	3	0.23	- 0.48	5.8	- 1.9	12	- 4
2. ENGLAND, N.E.	Alnwick Castle	47	29	41.1	34.5	37.9	- 1.3	0	29	2	0.12	- 0.58	*	*	*	*
	Durham	47	30	39.3	34.7	37.1	- 1.4	0	34	1	0.03	- 0.56	2.1	- 7.9	4	- 16
	Shields	48	28	42.3	34.4	38.5	- 1.3	1	28	12	0.13	- 0.41	*	*	*	*
	Scarborough	50	30	43.2	35.2	39.4	- 0.6	3	26	12	0.09	- 0.54	0.7	—	1	—
	Spurn Head	46	31	41.3	35.1	38.3	- 2.1	0	26	3	0.09	- 0.38	*	*	*	*
	Fulbeck (Lincolnshire)	50	20	39.7	29.8	35.0	- 3.0	0	49	4	0.08	- 0.38	0.3	—	1	0
3. ENGLAND, E.	Hillington	47	19	38.6	30.4	34.7	- 3.8	0	51	4	0.14	- 0.43	4.4	- 5.3	9	- 10
	Yarmouth	46	30	40.9	32.4	36.8	- 2.6	0	36	2	0.04	- 0.53	*	*	*	*
	Gedleston	47	27	38.7	31.9	35.4	- 4.2	0	46	3	0.08	- 0.45	3.4	- 8.2	6	- 16
	Cambridge	49	16	38.2	28.8	33.7	- 5.2	0	58	2	0.08	- 0.32	3.6	- 6.1	7	- 12
	Felixstowe	45	29	38.8	32.9	36.0	- 4.4	0	42	3	0.18	—	7.4†	—	14†	—
	Rothamsted	50	26	38.6	27.6	33.3	- 5.7	0	61	4	0.14	- 0.42	4.0	- 6.3	8	- 12
4. MIDLAND COUNTIES	Harrogate	49	20	38.9	29.4	34.3	- 4.1	0	54	1	0.01	- 0.70	2.3	—	5	—
	Bawtry (Hesley Hall)	50	18	39.7	30.1	35.1	- 3.7	0	48	2	0.08	- 0.39	*	*	*	*
	Loughborough	50	14	39.3	27.4	33.6	- 5.5	0	59	3	0.06	- 0.48	*	*	*	*
	Colly Weston (Stamford)	51	20	39.6	29.0	34.5	- 4.3	0	53	4	0.12	- 0.37	*	*	*	*
	Cheadle	47	22	37.0	29.8	33.5	- 4.4	0	60	3	0.09	- 0.63	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	48	21	36.5	29.9	33.3	- 6.3	0	61	2	0.06	- 0.47	1.4	—	3	—
	Churchstoke	47	16	35.9	28.4	32.3	- 7.1	0	68	3	0.05	- 0.68	5.2	- 4.2	10	- 8
	Hereford	51	18	38.6	27.6	33.3	- 6.5	0	61	1	0.04	- 0.51	*	*	*	*
	Cirencester	51	20	38.4	27.8	33.3	- 5.5	0	61	2	0.10	- 0.55	4.7	- 5.0	9	- 10
Oxford	51	20	39.0	28.6	34.0	- 5.7	0	56	2	0.07	- 0.42	5.6	- 4.9	9	- 9	
5. ENGLAND, S.	London	51	27	40.1	31.4	35.9	- 4.5	0	43	3	0.15	- 0.35	0.14	- 5.2†	04	- 104
	Swarraton (Alresford)	50	17	38.4	27.9	33.4	- 5.7	0	60	2	0.22	- 0.48	*	*	*	*
	Dungeness	48	25	39.7	30.4	35.2	- 6.6	0	48	2	0.05	- 0.45	7.6	—	14	—
	Hastings (St. Leonards)	48	21	38.2	30.7	34.6	- 7.1	0	52	3	0.08	- 0.59	11.4	- 2.2	21	- 4
	Southampton	50	22	40.0	32.3	36.3	- 5.4	0	40	2	0.23	- 0.50	6.2	- 5.4	11	- 10
	Portland Bill	52	25	41.0	31.0	36.2	- 6.7	0	41	3	0.10	—	—	—	—	—
6. SCOTLAND, W.	Shaftesbury	49	20	35.6	23.0	29.6	- 8.8	0	87	2	0.15	- 0.60	*	*	*	*
	Laudale (Loch Sunart)	49	26	41.9	31.3	36.8	- 4.6	0	36	2	1.12	- 1.02	*	*	*	*
	Glasgow	47	22	38.3	31.5	35.0	- 4.5	0	49	1	0.09	- 0.86	0.0	- 4.3	0	- 9
	Cally	55	18	39.6	29.1	34.6	- 5.1	0	52	2	0.93	- 0.27	*	*	*	*
	Douglas (Isle of Man)	50	33	41.9	37.1	39.6	- 2.9	0	17	2	0.20	- 0.87	7.9	- 1.4	16	- 3
	Newton Reigny	48	20	39.9	28.7	34.5	- 4.3	0	53	1	0.11	—	13.7	—	27	—
7. ENGLAND, N.W.	Stonyhurst	47	25	38.5	32.3	35.5	- 3.8	0	46	2	0.07	- 1.03	3.2	- 3.2	6	- 6
	Blackpool	52	21	42.0	30.1	36.3	- 4.1	0	40	3	0.09	- 0.64	7.8	+ 1.4	15	+ 3
	Manchester (Prestwich)	47	22	38.3	31.5	35.0	- 4.5	0	49	3	0.11	- 0.74	0.1	—	0	—
	Liverpool Obsy. (Bidston)	50	25	40.1	30.7	35.6	- 5.3	0	45	2	0.10	- 0.50	4.0	—	8	—
	Chester	53	17	41.1	30.1	35.8	- 6.0	0	43	0	0.00	—	*	*	*	*
	Llandudno	53	25	42.0	34.3	38.3	- 4.6	0	26	0	0.00	- 0.71	12.5	+ 3.9	24	+ 8
8. ENGLAND, S.W.	Holyhead	50	26	43.0	33.1	38.3	- 5.5	3	34	2	0.16	- 0.72	*	*	*	*
	Llandoverly	51	23	41.6	30.3	36.2	- 3.7	0	41	2	0.10	- 1.16	*	*	*	*
	Pembroke	57	28	43.3	33.3	38.5	- 6.3	4	33	3	0.13	- 0.81	4.4	- 6.3	8	- 12
	Clifton	54	21	39.8	29.4	34.8	- 6.0	0	50	3	0.11	- 0.65	*	*	*	*
	Bath	53	21	40.3	29.4	35.1	- 5.4	0	48	2	0.05	- 0.63	6.2	—	11	—
	Arlington (N. Devon)	51	21	40.3	29.0	34.9	- 6.3	0	50	2	0.17	- 1.23	*	*	*	*
9. IRELAND, N.	Cullompton	53	21	40.4	29.4	35.1	- 5.1	0	48	4	0.35	- 0.50	3.1	- 6.3	6	- 12
	Falmouth	53	34	43.4	38.1	40.9	- 4.5	4	16	4	0.69	- 0.58	0.3	- 12.9	1	- 23
	Plymouth	53	29	41.4	35.6	38.6	- 5.2	0	24	3	0.33	- 0.60	2.4	- 9.6	4	- 17
	Malin Head	52	31	43.3	36.4	40.0	- 2.6	4	22	2	0.05	- 0.72	*	*	*	*
	Edenfel (Omagh)	52	24	41.3	32.0	36.8	- 1.9	0	36	2	0.18	- 0.68	*	*	*	*
	Blacksod Point	53	34	44.3	37.9	41.2	- 2.5	6	17	2	0.73	- 0.64	*	*	*	*
10. IRELAND, S.	Markree Castle	48	21	41.2	32.6	37.1	- 3.1	0	34	2	0.58	- 0.38	13.7	+ 5.3	27	+ 10
	Armagh	49	25	41.9	34.4	38.3	- 1.4	0	26	2	0.16	- 0.51	10.7	+ 1.9	21	+ 4
	Donaghadee	51	35	44.4	38.1	41.4	- 0.5	7	16	2	0.18	- 0.49	*	*	*	*
	Dublin	53	30	45.0	38.4	41.8	- 0.6	8	15	3	0.09	- 0.45	7.6	- 5.0	15	- 10
	Parsonstown	55	23	43.4	33.0	38.4	- 2.2	4	34	2	0.13	- 0.60	12.5	+ 1.9	24	+ 4
	Kilkenny	53	22	43.7	34.9	39.5	- 2.2	5	27	2	0.40	- 0.36	*	*	*	*
CHANNEL ISLANDS	Roche's Point	53	38	46.3	40.6	43.6	- 1.3	17	4	4	0.68	- 0.54	*	*	*	*
	Valencia	55	36	46.6	38.6	42.8	- 3.0	20	10	3	0.83	- 0.60	9.1	- 1.2	17	- 2
	Killarney	51	35	45.9	39.0	42.6	- 1.4	17	8	2	0.30	- 1.34	*	*	*	*
	Foynes	54	25	44.5	33.6	39.3	- 3.5	7	33	3	0.57	- 0.48	*	*	*	*
	Scilly (St. Mary's)	55	36	46.3	38.4	42.5	- 5.2	19	10	4	0.50	- 0.44	1.3	—	2	—
	Jersey	52	27	42.0	32.9	37.6	- 7.4	0	31	5	0.53	- 0.25	14.4	- 0.1	25	0

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 7th December.

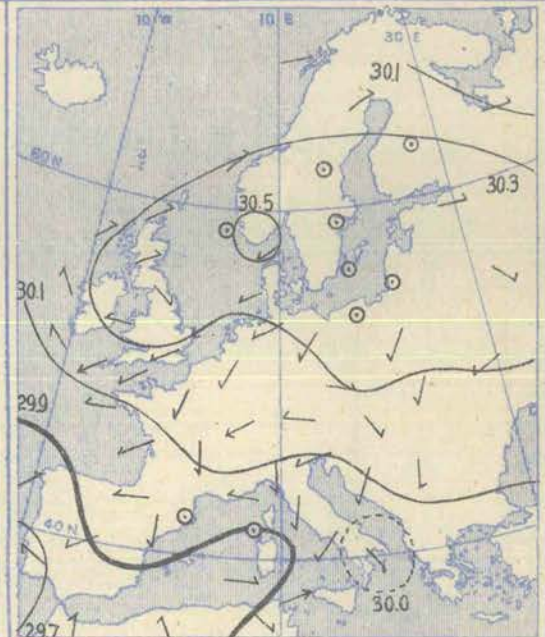
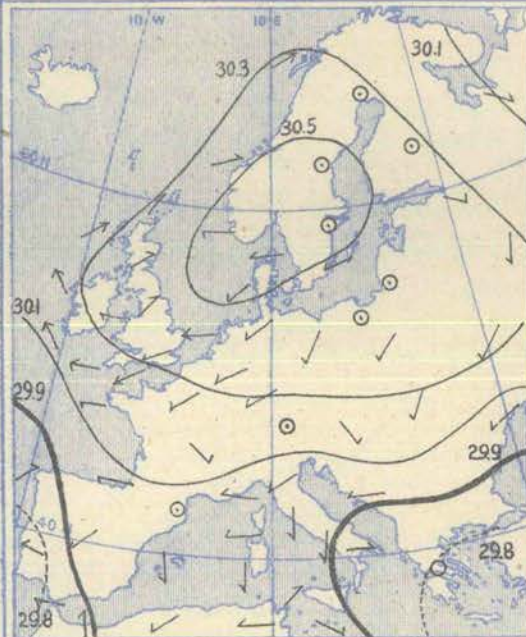
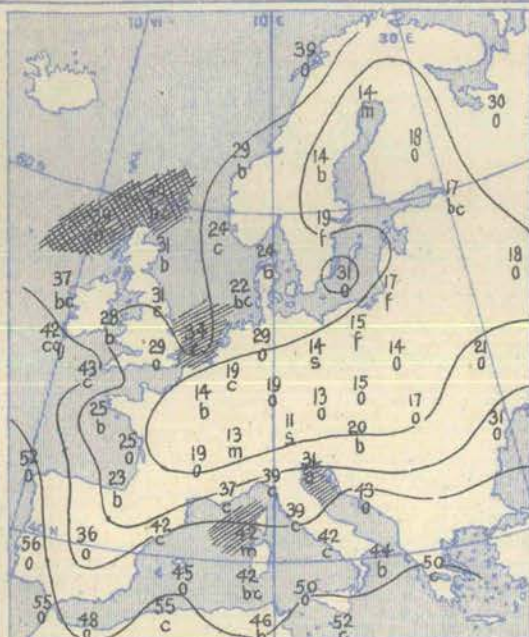
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair or fine over our Islands and the neighbouring parts of the Continent, as well as in the extreme south of France. Cloudy or dull elsewhere, with fog at several of the Baltic stations, and with snow at Berlin and Munich. Subsequently becoming dull in most parts of England, with slight snow in places; rain falling in several parts of Spain and Italy.

Temperature fallen over Norway, Denmark, Germany, and Austria, but risen in most other countries. Morning readings highest, 56° at Lisbon, 55° at San Fernando and Algiers, and 52° at Corunna and Malta. Lowest, 10° at Karlstad, 11° at Munich, and 13° at Warsaw, Breslau, and Belfort; below 20° in most parts of Sweden, Russia, and Germany, and also over central England; below the freezing point over nearly the whole of Great Britain and central Ireland. Hard frost continuing all day over northern and central Europe, and slight frost in some parts of Great Britain, the thermometer remaining below 35° at most of the English and Scotch stations; exceeding 55° at several of the Mediterranean stations, and reaching 63° Cagliari.

Wind light from the North-Eastward over Denmark, Germany, and central France, and moderate to fresh from the Eastward over England and the north and west of France; South-Easterly in Ireland; South-Westerly in the north of Scotland and the west of Norway. Calm over Sweden and northern Russia; North-Easterly in the south of Russia; varying between North and West in Italy. No important change occurring during day.

Barometer highest, 30.5 ins. and upwards over Denmark and the southern parts of Scandinavia; 30.3 ins. and upwards in an anticyclone covering the whole of northern Europe, and extending westwards over the North Sea and Great Britain. Lowest, 29.8 ins. and less in two cyclonic areas—one lying off the Portuguese coasts, and the other over Greece. Anticyclone gradually diminishing in intensity later, but general distribution of pressure remaining unchanged.

Monday, 8th December.

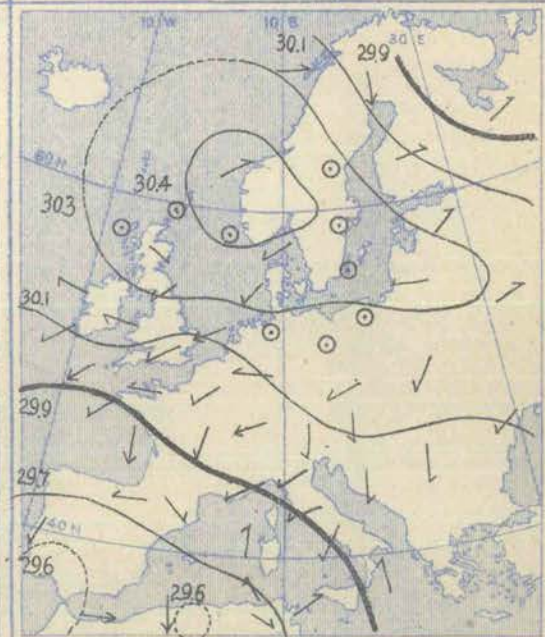
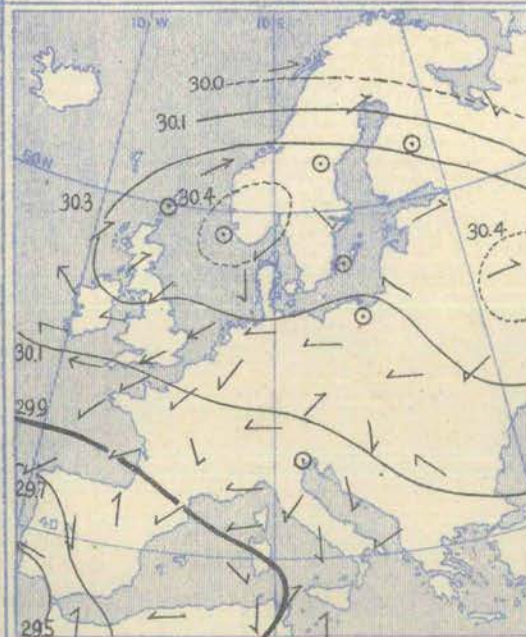
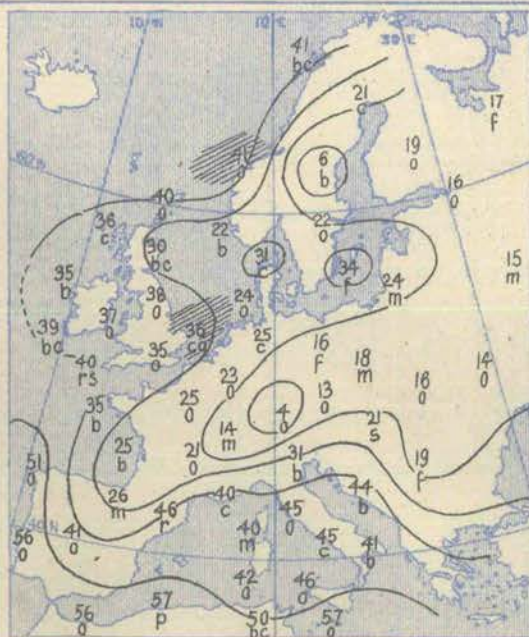
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with local mists or fogs; sleet showers at Scilly, rain at Toulon and Barcelona, and snow at Buda-Pesth. Fine in the west of Ireland, as well as at most of the Scandinavian stations. Slight falls of snow or sleet occurring later in several parts of Great Britain. Snow falling also at Hermanstadt, and rain in some parts of Italy and the extreme south of France.

Temperature risen in most of the western countries, but changed rather irregularly elsewhere. Morning readings highest, 57° at Algiers and Malta, 56° at Lisbon and Oran, and 55° at Nemours. Lowest, 4° at Munich, 6° at Hernösand, 12° at Frankfurt, and 13° at Prague; considerably below the freezing point over northern and central Europe generally, and slightly below it over the northern parts of Great Britain, but above 40° on the west coast of Norway. Remaining below 35° all day in central Scotland, and below 40° in many other parts of the United Kingdom; exceeding 50° over the greater part of southern Europe, and reaching 64° at Malta.

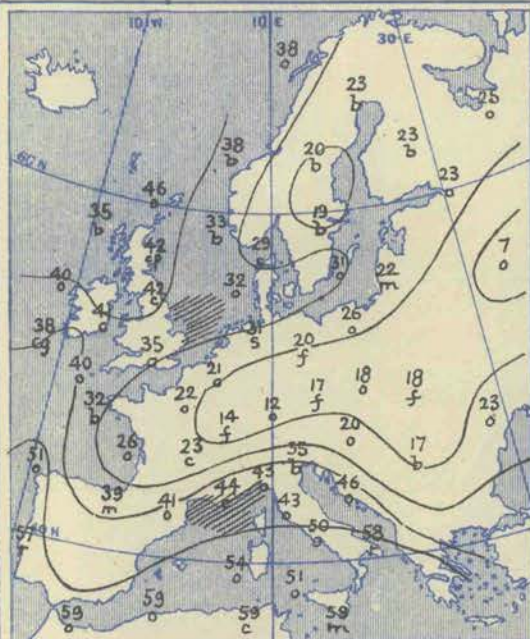
Wind Easterly or North-Easterly over England and the western parts of the Continent, and strong in force at some of the Channel stations; South-Easterly in Ireland, calm or South-Westerly over Scotland and the northern parts of Scandinavia. Variable in Russia and Austria; Northerly or North-Easterly in Italy. No material change occurring during day.

Barometer highest, 30.4 ins. and upwards in the south of Norway, and also over central Russia; 30.2 ins. and upwards in an anticyclone covering the greater part of northern and north-western Europe. Lowest, 29.5 ins. and less in a cyclonic area lying off the Portuguese coasts; 30.0 ins. and less in the extreme north of Norway. Low-pressure areas both moving eastwards later. No material change occurring in any other part of Europe.

Tuesday, 9th December.

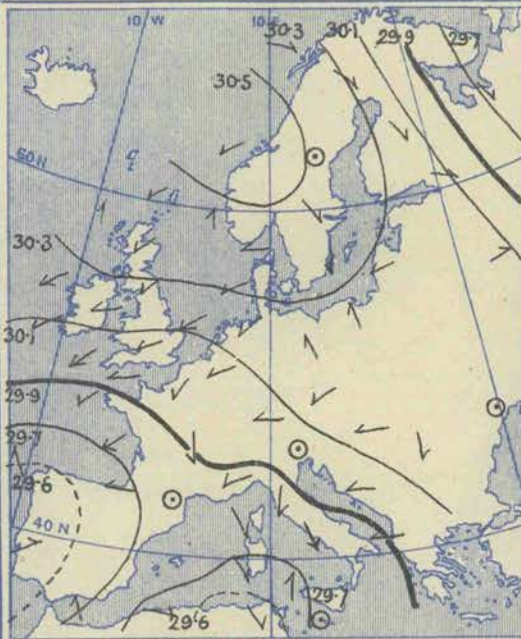
Temperature and Weather.

8 a.m.

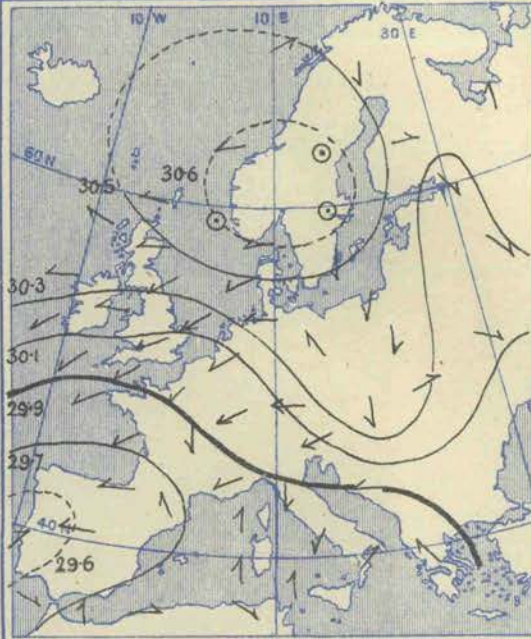


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with sleet at some of the English stations, and snow at Cuxhaven; fog very prevalent in Germany, and rain reported in several parts of Spain and northern Italy. Fine and bright at most of the Scandinavian stations. Sky clearing later over the north of Ireland and western and central Scotland, but slight rain falling in the eastern parts of Great Britain. Heavy rain reported over Spain and the extreme south of France—as much as 4.7 ins. at Cape Béarn, 4.3 ins. at Cette, and 1.3 ins. at Perpignan.

Temperature risen generally—quickly in the east of Scotland—but fallen a little in the north of France, as well as at some of the Scandinavian stations. Morning readings, highest, 50° at Malta, Nemours, and Algiers, and 57° at Lisbon and Oran; above 50° at most of the Mediterranean stations. Lowest, 7° at Moscow, 12° at Munich, 14° at Belfort, and 17° at Frankfurt and Prague; considerably below the freezing point over northern and central Europe generally. Frost continuing all day in many parts of the Continent, and thermometer remaining below 40° over England and central Scotland.

Wind Easterly or North-Easterly over western and central Europe generally, and fresh or strong in force on many parts of the English and Irish coasts. Light from the North-Westward over northern Russia, but calm in the south of that country; variable over Italy and the Spanish Peninsula. No important change occurring during day.

Barometer, highest, 30.5 ins. and upwards over the western and central parts of Scandinavia, 30.3 ins. and upwards in an anticyclone covering the greater part of western Europe, and extending westwards over Scotland. Lowest, 29.6 ins. and less in two shallow cyclonic systems—one lying over Portugal, and the other over Tunis. Anticyclone increasing in intensity during day, and spreading slowly southwards; cyclonic system over Tunis moving eastwards and partially dispersing.

Wednesday, 10th December.

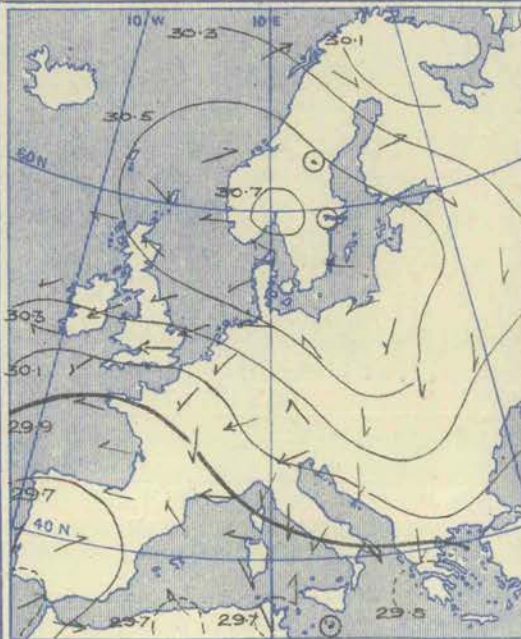
Temperature and Weather.

8 a.m.

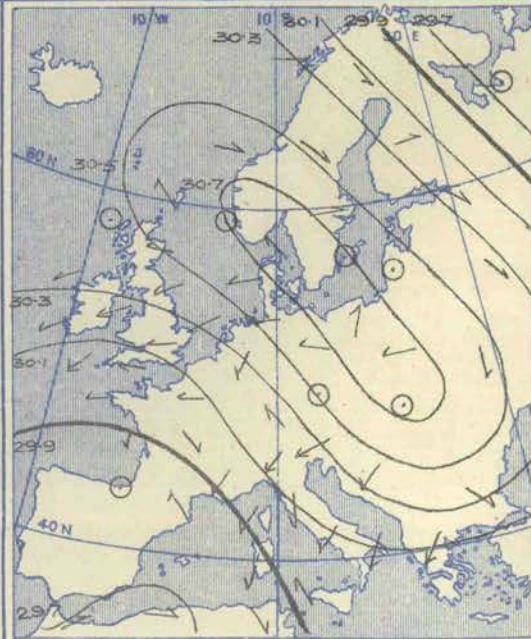


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with showers on the north-east coasts of Great Britain, steady rain at Limoges, Perpignan, and Bilbao, and snow at Le Mans and Trieste. Fine on the east and south-east coasts of England, as well as in Italy and at most of the Scandinavian stations. Slight rain falling later in the northern and southern parts of the United Kingdom, and further large amounts at some stations in the extreme south of France—as much as 1.7 ins. at Perpignan.

Temperature risen over France and south Germany, changed very irregularly elsewhere. Morning readings highest, 61° at Algiers and Athens, 60° at Patras, and 59° at Oran. Lowest, 12° at Karlstad, 13° at St. Petersburg and Prague, and 15° at Moscow; considerably below the freezing point over northern and central Europe generally, and very little above it over central England, but above 40° on the north-west coasts of Norway. Frost continuing all day in many of the northern and central countries, and thermometer remaining below 40° over England and central Scotland.

Wind Easterly or North-Easterly over western Europe generally, and strong to a gale in force on the east coasts of England; South-Easterly on our extreme north and north-west coasts. Westerly or South-Westerly over the northern parts of Russia and Scandinavia. Light from the Northward over Austria and the central and southern parts of Russia, and moderate to fresh from the same quarters in Italy; light from the Southward or South-Westward over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30.7 ins. and upwards in the south of Scandinavia; 30.4 ins. and upwards in an anticyclone covering the greater part of northern Europe, and extending westwards over the northern parts of the United Kingdom. Lowest, 29.6 ins. and less in a shallow depression off the south of Spain; 29.7 ins. and less in two other shallow systems lying over Algeria and Tunis. Anticyclone increasing somewhat in intensity during day, but barometer falling a little in most parts of our Islands.

Thursday, 11th December.

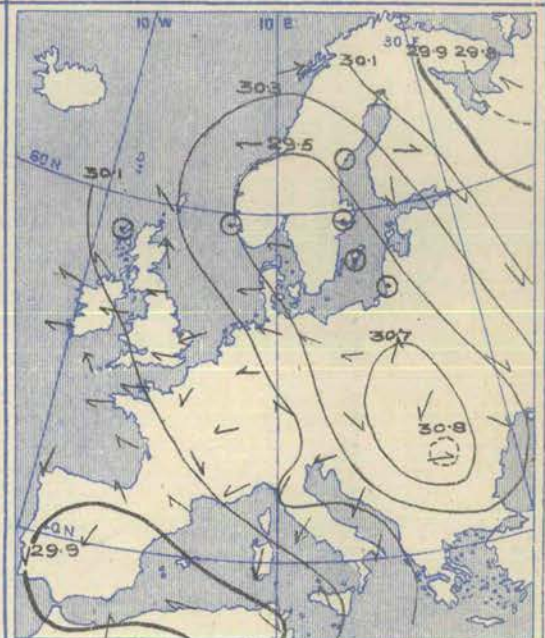
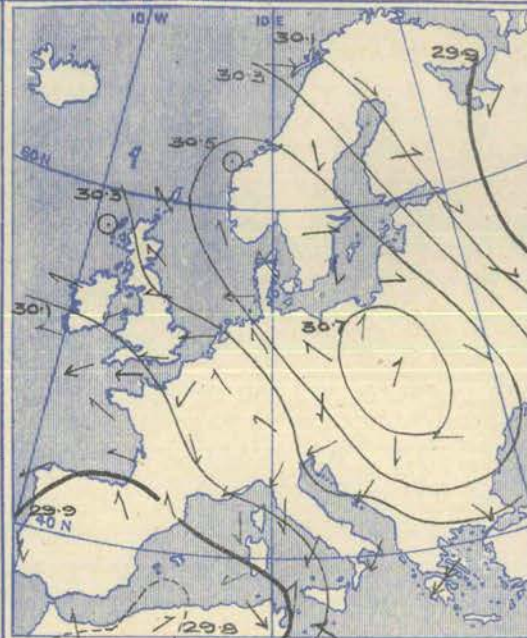
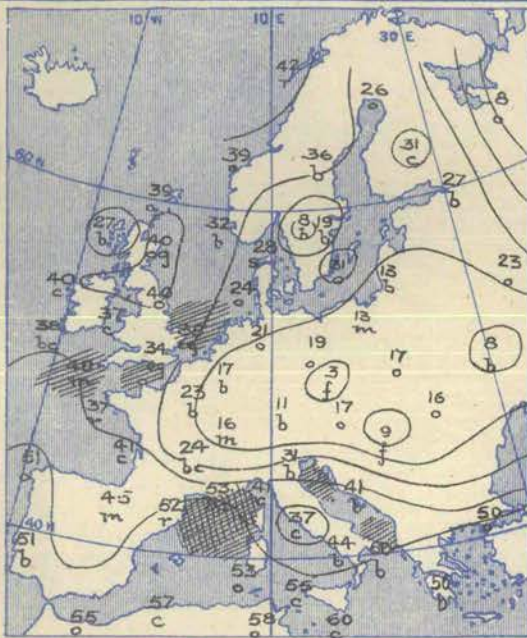
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather at 8 a.m. cloudy or dull generally, but fine and bright over the Netherlands, at Paris, over the Riviera, and at several Scandinavian and Italian stations. Showers falling at Roche's Point, rain at Brest and Perpignan, and also at Bodø, and snow at Skagen. Fog prevailing at Prague and Buda-Pesth. Rain falling later at Scilly and at some southern French stations—as much as 1·2 ins. at Perpignan.

Temperature fallen on the shores of the White Sea, over Scotland, central Europe, and Italy; changed little or risen elsewhere. Readings at 8 a.m. highest, 60° at Malta, 57° at Algiers, 56° at Athens, 53° at Nice, 51° at Corunna and Lisbon. Lowest, -8° at Archangel, +3° at Prague, 8° at Kiev and Karlstad, 9° at Buda-Pesth, 11° at Munich, 17° at Brussels, 22° at Naim, and 23° at Paris and Moscow. Remaining below 32° all day over central Scotland, the east of France, and the greater part of northern and central Europe, but rising to 49° at Scilly and in the south of Ireland, to 57° at Nice, 63° at Marseilles and Malta, and to 70° at Algiers.

Wind in morning North-Easterly or Easterly in most regions, but drawing into South-East in Scotland, and into West or North-West at Bodø, over Finland and Russia. Variable in Algeria. Fresh or strong in force in some parts of England, Denmark, and northern Italy, and blowing a fresh gale at Cape Sicie and Athens. Not much change as a whole later, but wind veering towards South-East on our own south-west coasts by evening.

Barometer fallen over northern and north-western Europe, risen in the more southern and south-western districts. Readings in morning highest, 30·6 ins. to 30·7 ins. in an anticyclone extending south-eastwards from the southern half of Scandinavia nearly to the northern shores of the Black Sea. Lowest, 29·8 ins. and less over the western half of Algeria, and below 29·9 ins. over northern Russia. Barometer continuing to fall over our western and northern districts later, and northern part of anticyclone giving way.

Friday, 12th December.

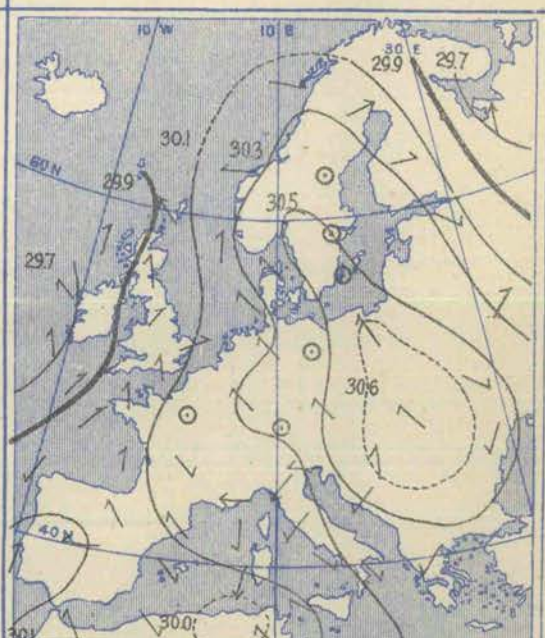
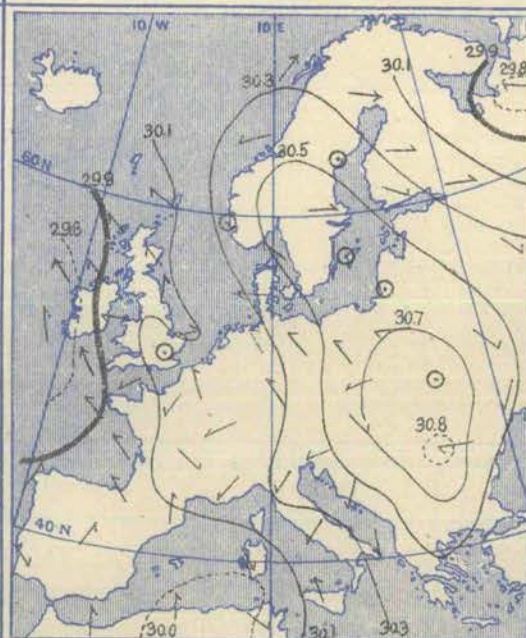
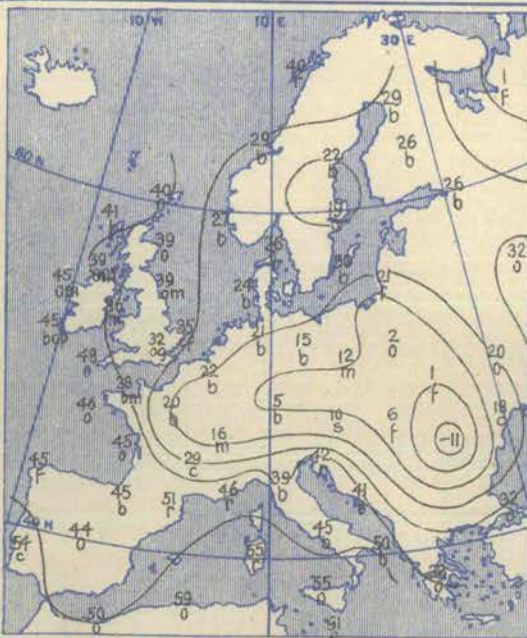
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy over the United Kingdom, the west and south of France, and the Spanish Peninsula, with showers at Valencia (Ireland), and steady rain at Nice and Perpignan. Fine over northern and central Europe, cloudy over Austria and the south of Russia, with rain at Trieste, and snow at Vienna. Rain spreading later from the westward over all but the most eastern parts of the United Kingdom, but amount mostly slight; larger quantities falling in the west of France, and in isolated parts of southern Europe.

Temperature risen over the Spanish Peninsula, the west of France, and the south-western parts of the United Kingdom; fallen in most other localities. Morning readings, 61° at Malta, 59° at Algiers, and 50° at Tunis; above 50° over the central and southern parts of the Mediterranean generally. Lowest, -11° at Hermanstadt, +1° at Lemberg, 2° at Warsaw, and 3° at Cracow; considerably below the freezing point over northern, eastern, and central Europe generally, and also over central Scotland, and slightly below it over central England. Brisk rise taking place later in the south of England, and at night in most other parts of the United Kingdom; exceeding 50° on our south-west coasts and in the west of France.

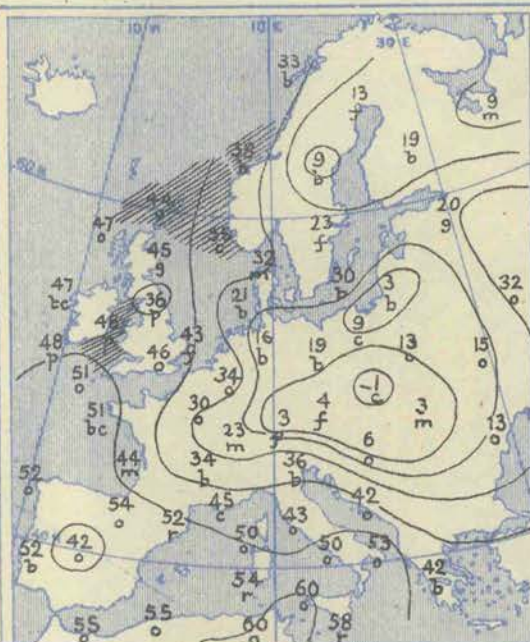
Wind South-Easterly over western and central Europe generally, and fresh or strong in force on some of the more exposed parts of our coasts; light and variable over central France and the Spanish Peninsula. North-Easterly or Northerly over Italy and the extreme south of France; Westerly or North-Westerly over Russia; variable in Austria. Subsequently veering to the Southward in many parts of Ireland and England, and to the South-Westward in the north-west of France.

Barometer highest, 30·82 ins. at Hermanstadt, 30·7 ins. and upwards over nearly the whole of Austria; 30·3 ins. and upwards in an anticyclone covering the whole of northern, eastern, and central Europe. Lowest, 29·8 ins. and less in two cyclonic systems—one lying to the westward and south-westward of Ireland, and the other over the extreme north of Russia. Anticyclone diminishing somewhat in intensity later; disturbance off the Irish coasts moving northwards, and barometer rising over France.

Saturday, 13th December.

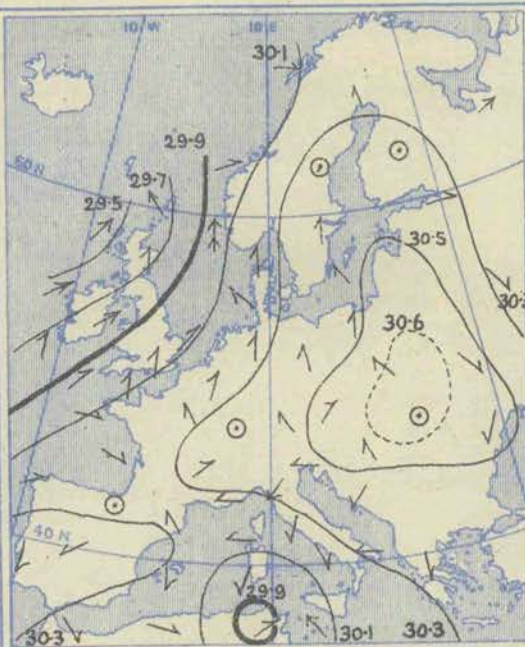
Temperature and Weather.

8 a.m.

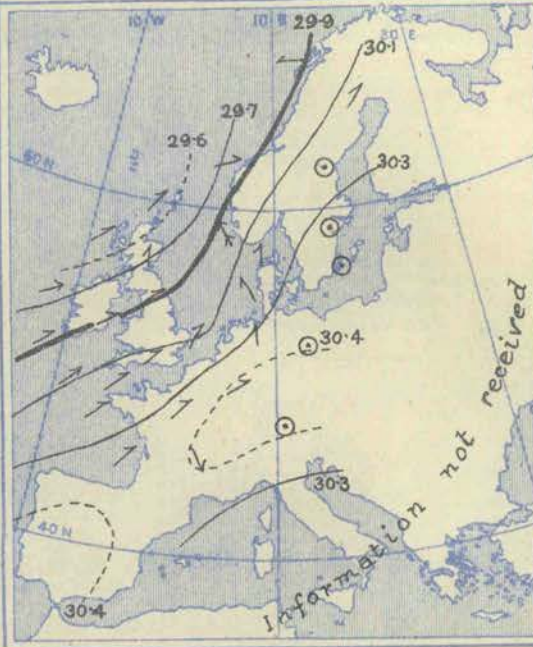


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair, or foggy, over central and northern Europe, with the eastern parts of England; dull and very unsettled over the northern and western parts of the United Kingdom and Brittany, with rain in several places. Some rain later over our Islands and the north-western parts of France—most in the west of Ireland. Thunder and lightning at Stornoway; remaining fine over central Europe.

Temperature risen greatly in most places, but fallen in Finland and the north of Scandinavia. Morning readings highest, 54° at Biarritz, 52° at Lisbon and Corunna, and 51° at Scilly and Roche's Point, 47° at Blackod Point and Stornoway, 44° at Sunburgh Head and Oxford. Lowest, -1° at Cracow, 0° at Warsaw, 3° at Lemberg and Riga, and very low over the central parts of Europe generally. Becoming very mild later over the British Isles and western Europe, and thermometer rising somewhat in Germany.

Wind very light and anticyclonic almost all over Europe, but Southerly over the British Islands and North Sea. Blowing a gale at Skudesnes and Stornoway, and a strong to light breeze over the United Kingdom generally. Wind veering to South-Westward later in many parts of our Islands and increasing in force.

Barometer in morning highest 30.6 ins. and more over Hungary, and exceeding 30.3 ins. in a large anticyclonic system over central Europe and the Baltic. Lowest, 29.42 ins. at Stornoway, and 29.38 ins. at La Calle. Gradients steep over the west and north of the United Kingdom. Rising a little later over the British Isles and France, falling over Scandinavia.

GENERAL NOTES.

During the early part of the week the large anticyclonic system previously existing over northern Europe began to diminish in intensity, while a shallow cyclonic area spread over the Spanish Peninsula from the south-westward. Easterly or North-Easterly winds continued to prevail over England and the western and central parts of the Continent, and South-Easterly or Southerly winds in Ireland and Scotland; but while a severe frost was still reported in many of the northern and central countries, the thermometer in these islands rose slowly, but steadily, the weather being cloudy, with occasional snow or sleet in the east and south-east of England. On the 9th and 10th the anticyclone increased temporarily in height, but in the latter part

of the week it again diminished in intensity and moved south-eastwards, its central portion being found on Saturday over eastern Austria. The wind in these islands now shifted gradually to the South-Eastward, while on Friday night, when a cyclonic disturbance moved northwards along our extreme western coasts, it veered to South or South-West, a decided rise of temperature taking place in the south, and spreading next day over the entire Kingdom. Rain also fell in most parts of these islands and France, but not in any great quantity. At the close of the week the milder weather was spreading over France, but in Germany and Austria the frost still held with considerable severity.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 296.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNES.	9.1	+ 2.8	22	+ 7	WORKSOP.	0.0	- 7.5	0	- 14	BOURNEMOUTH.	—	—	—	—
STRATHPEFFER SPA.	11.2	+ 3.7	25	+ 8	THURCASTON.	2.0	- 5.5	4	- 11	SOUTHPORT.	4.9	—	10	—
EDINBURGH.	3.7	- 1.9	8	- 4	MARGATE.	3.4	- 2.6	15	- 5	RHYL.	12.4	—	24	—
MORPETH.	1.3	—	3	—	BROADSTAIRS.	6.7	—	12	—	COLWYN BAY.	—	—	—	—
NEWCASTLE-ON-TYNE.	0.3	—	1	—	EASTBOURNE.	5.7	- 7.1	10	- 13	ABERDOVEY.	7.0†	—	14†	—
YORK.	0.8	- 5.5	2	- 11	BRIGHTON.	8.2	- 3.9	15	- 7	TENBY.	6.9	- 3.5	13	- 7
CROMER.	0.8	—	2	—	WORTHING.	12.3	—	23	—	NEWQUAY.	1.4	- 11.0	3	- 20
LOWESTOFT.	3.2	—	6	—	BOGNOR.	7.5†	—	14†	—	TORQUAY.	1.1	- 11.2	2	- 20
DUNMOW.	—	—	—	—	WATERGATE.	12.0	—	22	—	GUERNSEY.	6.0†	- 4.7	11†	- 8
HOLLESLEY BAY.	6.9	—	13	—	WESTBOURNE.	13.3†	+ 1.3	24†	+ 2					
SHEFFIELD.	0.0	—	0	—	VENTNOR HOSPITAL.	2.9	- 3.8	5	- 16					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)					Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.							
Week ending Nov. 29th, 1902.	Rhyl	—	—	—	—	—	—	—	—	15.8	—	23	—
" Dec. 6th, "	Hoylake	—	—	—	—	—	—	—	—	11.4	—	21	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XIX. No. 51.]
Fourth Series.

WEEK ENDING SATURDAY, DECEMBER 20TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 302.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	31	46.1	36.9	41.7	4 above	Day-deg. 11	Day-deg. + 4	Day-deg. 22	Day-deg. - 8	Day-deg. 1873	Day-deg. -150	Day-deg. 790	Day-deg. + 15
	1. SCOTLAND, EAST	55	32	47.0	37.3	42.3	5 above	22	+ 15	13	- 24	2036	- 341	922	+ 52
	2. ENGLAND, N.E.	56	36	49.7	39.8	44.9	7 above	30	+ 21	6	- 25	2468	- 142	617	- 68
	3. ENGLAND, EAST	57	34	50.7	40.1	45.6	7 above	33	+ 23	5	- 30	2890	- 127	657	- 98
	4. MIDLAND COUNTIES	58	34	50.9	41.2	46.3	8 above	33	+ 23	2	- 34	2742	- 210	685	- 101
5. ENGLAND, SOUTH	57	36	51.5	43.4	47.6	8 above	39	+ 24	0	- 25	3085	- 255	477	- 69	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	38	49.6	42.2	46.0	6 above	28	+ 16	0	- 23	2404	- 149	575	- 5
	7. ENGLAND, N.W.	59	36	51.3	41.8	46.7	6 above	34	+ 21	1	- 23	2644	- 166	530	- 14
	8. ENGLAND, S.W.	59	33	52.6	44.9	48.9	8 above	48	+ 27	0	- 17	3052	- 111	415	+ 6
	9. IRELAND, NORTH	56	36	50.2	41.5	46.0	6 above	30	+ 15	1	- 21	2525	- 182	406	- 97
	10. IRELAND, SOUTH	58	38	53.0	43.3	48.4	6 above	45	+ 22	0	- 17	3096	- 21	294	- 79
— CHANNEL ISLANDS	57	44	53.7	47.7	50.8	5 above	62	+ 30	0	- 5	3722	- 38	136	- 6	

DISTRICTS. (See p. 302.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	22	8 more	242	+ 16	43.8	- 5.8	2	- 2	5	- 5	1101	- 14	25	0	
	1. SCOTLAND, EAST	5	15	8 more	207	+ 15	25.6	- 5.4	8	+ 1	16	+ 2	1121	- 170	26	- 4	
	2. ENGLAND, N.E.	4	6	1 more	178	0	21.3	- 3.8	9	+ 2	18	+ 13	1203	- 69	28	- 2	
	3. ENGLAND, EAST	4	6	1 more	172	- 8	21.8	- 3.0	12	0	22	0	1562	- 77	34	- 2	
	4. MIDLAND COUNTIES	5	8	2 more	174	+ 3	24.0	- 3.4	7	- 1	14	- 1	1275	- 55	31	- 1	
5. ENGLAND, SOUTH	5	7	1 more	172	+ 4	25.0	- 2.9	11	- 1	20	- 1	1562	- 120	35	- 3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	30	17 more	219	+ 13	50.1	+ 0.1	4	- 2	8	- 5	1223	- 110	28	- 3	
	7. ENGLAND, N.W.	6	16	8 more	204	+ 15	27.9	- 6.6	5	- 2	9	- 4	1439	+ 95	34	+ 2	
	8. ENGLAND, S.W.	5	16	6 more	189	- 6	32.3	- 7.4	9	- 2	16	- 4	1527	- 114	36	- 3	
	9. IRELAND, NORTH	7	15	6 more	240	+ 18	35.2	- 0.3	8	0	15	0	1233	- 27	28	- 1	
	10. IRELAND, SOUTH	6	20	10 more	203	0	35.6	- 4.6	6	- 5	11	- 10	1391	- 55	32	- 1	
— CHANNEL ISLANDS	6	5	4 less	205	+ 8	27.7	- 5.0	10	- 4	17	- 6	1722	- 183	40	- 4		

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was unusually mild, with a good deal of rain and much cloud and humidity. There was some improvement, however, towards its close, when the rain was mostly confined to the western and northern districts.

Temperature was very high for the time of year, the weekly values ranging from 4° above the mean in Scotland N., to as much as 7° in England N.E. and E., and 8° in England S., the Midland Counties, and England S.W. The highest of the maxima were registered during the middle or earlier days of the period, and varied from 59° in England N.W. and S.W., and 58° in the Midland Counties and Ireland S., to 55° in Scotland. The lowest of the minima, which occurred, as a rule, on the 16th, ranged from 31° in Scotland N., and 33° in England S.W., to 38° in Ireland S., and to 44° in the Channel Islands.

Rainfall exceeded the mean in all districts, the excess being large in the west and north, and slight in the east and south-east. In Scotland W. the aggregate fall was 1.7 ins. above the average.

Bright Sunshine was deficient in nearly all districts, but was just equal to the normal in England E., and Ireland, N., and in excess in Scotland E. and England N.E. The percentage of the possible duration ranged from 22 in England E., and 20 in England S. to 9 in England N.W., and to 5 in Scotland N.

Barometer and Wind.—During all the earlier part of the period the winds over our Islands were equally and strong to a gale in force from between South or South-West and West, owing to large depressions whose centres moved in a general north-easterly direction outside or over our western and north-western coasts. During this time the barometer was highest over central Europe and Spain, but later on it fell decidedly over Denmark and Germany, and rose over the Bay of Biscay and our south-west coasts, so that the wind became North-Westerly or Westerly over our Islands, and moderated in force.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.				
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).									
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°.	Below 42°.		Inches.	Inches.					
O. SCOTLAND, N.	Sumburgh Head	47	33	44.9	38.6	41.9	+ 2.4	8	15	7	2.22	+ 1.21	*	*	*	*	*
	Stornoway	52	34	48.1	36.0	42.3	+ 3.0	27	17	7	2.01	+ 0.75	4.5	- 0.8	10	- 2	*
	Wick	49	33	44.7	35.3	40.2	+ 2.0	8	27	7	1.20	+ 0.50	*	*	*	*	*
	Laig	47	31	42.6	34.7	38.8	+ 4.1	2	27	6	1.04	+ 0.14	*	*	*	*	*
	Glencarron	52	31	46.7	36.2	41.7	+ 4.8	13	25	7	3.07	+ 0.78	*	*	*	*	*
	Fort Augustus	51	32	46.5	37.0	41.9	+ 3.7	13	22	5	2.62	+ 1.42	0.5	- 1.5	1	- 3	*
1. SCOTLAND E.	Fort William	55	37	49.2	40.5	45.0	+ 5.6	27	4	7	3.05	+ 0.80	0.4	- 2.1	1	- 5	*
	Nairn	51	35	46.7	36.0	41.6	+ 4.0	13	26	6	1.15	+ 0.68	*	*	*	*	*
	Aberdeen	51	34	46.6	37.4	42.2	+ 4.3	21	13	4	1.09	+ 0.37	11.1	+ 2.5	24	+ 5	*
	Braemar	48	32	43.2	35.0	39.3	+ 4.9	3	27	6	2.21	+ 1.47	*	*	*	*	*
	Ochertyre	52	35	47.6	38.3	43.1	+ 6.1	23	10	6	2.62	+ 1.62	*	*	*	*	*
	Leith	55	34	50.4	39.3	45.1	+ 5.8	33	8	4	0.82	+ 0.38	*	*	*	*	*
2. ENGLAND, N.E.	Marchmont	51	34	47.3	37.6	42.6	+ 6.0	23	12	4	1.08	+ 0.39	10.5	+ 3.3	22	+ 7	*
	Alnwick Castle	55	36	50.2	38.6	44.6	+ 6.3	32	10	4	0.97	+ 0.30	*	*	*	*	*
	Durham	55	36	50.9	39.9	45.6	+ 8.2	34	6	4	0.48	- 0.10	12.5	+ 3.0	26	+ 6	*
	Shields	55	36	49.0	38.7	44.1	+ 5.2	29	9	4	0.59	+ 0.06	*	*	*	*	*
	Scarborough	56	36	50.4	39.7	45.3	+ 6.4	33	6	3	0.36	- 0.26	8.0	-	16	-	*
	Spurn Head	53	37	47.7	40.9	44.4	+ 5.1	21	3	4	0.52	+ 0.07	*	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	55	37	49.9	40.9	45.6	+ 8.6	30	3	5	0.69	+ 0.26	6.1	-	12	-	*
	Hillington	55	35	50.8	39.4	45.3	+ 7.9	34	7	3	0.82	+ 0.27	9.2	- 0.1	18	0	*
	Yarmouth	55	36	49.3	39.4	44.6	+ 6.3	29	7	5	0.37	- 0.18	*	*	*	*	*
	Geldeston	57	35	50.4	39.0	44.9	+ 6.4	33	8	4	0.52	+ 0.05	10.0	- 0.9	19	- 2	*
	Cambridge	57	34	53.2	40.2	47.0	+ 9.2	43	5	3	0.55	+ 0.15	11.1	+ 1.8	21	+ 3	*
	Felixstowe	55	37	49.3	40.5	45.1	+ 6.1	28	4	4	0.59	-	17.8†	-	34†	-	*
4. MIDLAND COUNTIES	Rothamsted	57	36	50.9	41.8	46.5	+ 8.4	32	1	6	0.61	+ 0.06	9.9	+ 0.5	19	+ 1	*
	Harrogate	55	37	49.2	39.4	44.5	+ 7.3	28	7	5	0.80	+ 0.10	12.6	-	25	-	*
	Bawtry (Hesley Hall)	57	38	51.1	41.3	46.4	+ 8.7	34	2	4	0.52	+ 0.05	*	*	*	*	*
	Loughborough	56	38	50.6	42.3	46.6	+ 8.2	32	0	6	0.65	+ 0.12	*	*	*	*	*
	Colly Weston (Stamford)	58	35	51.7	41.3	46.7	+ 9.2	36	2	5	0.49	+ 0.02	*	*	*	*	*
	Cheadle	54	35	49.6	39.3	44.7	+ 7.5	30	8	7	0.73	+ 0.01	*	*	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	55	36	50.7	40.9	46.0	+ 7.2	33	3	6	0.75	+ 0.25	1.7	-	3	-	*
	Churchstoke	55	35	51.9	40.0	46.2	+ 7.7	38	6	6	1.37	+ 0.65	7.2	- 1.7	14	- 4	*
	Hereford	57	38	52.2	43.3	47.9	+ 9.0	41	0	5	0.78	+ 0.23	*	*	*	*	*
	Cirencester	54	34	50.8	41.2	46.2	+ 8.3	33	2	4	1.40	+ 0.76	9.7	+ 0.7	18	+ 1	*
	Oxford	55	38	51.6	43.1	47.5	+ 8.6	39	0	4	0.60	+ 0.12	10.8	+ 1.4	20	+ 3	*
	London	57	38	52.0	43.9	48.1	+ 8.5	43	0	5	0.78	+ 0.30	4.9†	+ 0.3†	9†	+ 1†	*
6. SCOTLAND, W.	Swarraton (Alresford)	55	37	50.9	42.3	46.8	+ 8.6	34	0	4	0.75	+ 0.05	*	*	*	*	*
	Dungeness	52	36	50.4	43.0	46.9	+ 6.1	34	0	5	0.46	- 0.01	9.3	-	17	-	*
	Hastings (St. Leonards)	53	37	50.8	42.1	46.6	+ 5.7	32	0	5	0.80	+ 0.23	12.6	- 0.6	23	- 1	*
	Southampton	56	39	53.2	44.1	48.8	+ 8.1	48	0	5	0.78	+ 0.07	11.0	0.0	20	0	*
	Portland Bill	53	45	51.3	46.4	49.0	+ 6.4	49	0	5	0.46	-	*	*	*	*	*
	Shaftesbury	55	37	51.8	42.0	47.1	+ 9.7	36	0	7	0.77	+ 0.05	*	*	*	*	*
7. ENGLAND N.W.	Laudale (Loch Sunart)	55	38	50.2	41.2	45.9	+ 5.2	31	2	7	4.72	+ 2.58	*	*	*	*	*
	Glasgow	53	38	48.3	40.8	44.7	+ 5.9	24	3	6	2.32	+ 1.37	1.5	- 2.2	30	- 5	*
	Cally	50	39	47.7	41.7	44.8	+ 6.1	21	1	7	2.53	+ 1.33	*	*	*	*	*
	Douglas (Isle of Man)	54	40	52.0	45.0	48.6	+ 6.9	46	0	5	2.53	+ 1.47	6.3	- 2.5	13	- 5	*
	Newton Reigny	53	36	48.1	39.0	43.7	+ 5.6	25	8	5	2.99	-	1.0	-	2	-	*
	Stonyhurst	53	37	49.5	40.5	45.2	+ 6.9	29	4	6	2.35	+ 1.27	3.3	- 2.4	7	- 5	*
8. ENGLAND, S.W.	Blackpool	55	38	50.0	41.1	45.7	+ 6.2	30	3	7	2.06	+ 1.33	3.8	- 1.8	8	- 4	*
	Manchester (Prestwich)	55	36	51.2	40.5	46.1	+ 7.6	35	4	7	1.33	+ 0.48	1.2	-	2	-	*
	Liverpool Obsy. (Bidston)	56	38	50.9	41.1	46.2	+ 5.9	33	3	6	0.91	+ 0.31	3.5	-	7	-	*
	Chester	57	38	53.6	41.7	47.9	+ 6.7	43	1	6	0.71	-	*	*	*	*	*
	Llandudno	59	42	53.8	44.4	49.3	+ 7.1	51	0	6	1.31	+ 0.61	6.0	- 2.0	12	- 4	*
	Holyhead	52	36	49.9	43.0	46.6	+ 3.3	32	0	5	2.54	+ 1.65	*	*	*	*	*
9. IRELAND, N.	Llandoverly	54	33	51.3	42.3	47.0	+ 8.3	35	0	6	2.99	+ 1.72	*	*	*	*	*
	Pembroke	54	43	52.4	46.3	49.5	+ 5.2	53	0	5	1.70	+ 0.77	10.0	+ 0.1	19	0	*
	Clifton	54	40	52.1	44.5	48.5	+ 8.6	46	0	4	1.78	+ 1.02	*	*	*	*	*
	Bath	58	36	53.6	44.1	49.0	+ 9.3	49	0	4	1.16	+ 0.49	7.0	-	13	-	*
	Arlington (N. Devon)	59	39	51.7	43.3	47.7	+ 7.3	40	0	5	2.62	+ 1.23	*	*	*	*	*
	Cullompton	56	37	53.3	44.0	48.8	+ 9.3	48	0	5	0.90	+ 0.06	6.8	- 1.8	13	- 3	*
10. IRELAND, S.	Falmouth	55	40	53.2	47.2	50.3	+ 5.6	58	0	5	1.24	- 0.03	9.1	- 3.4	17	- 6	*
	Plymouth	55	44	53.3	47.1	50.3	+ 6.9	58	0	5	0.73	- 0.21	7.0	- 4.4	13	- 8	*
	Malin Head	52	38	48.7	41.6	45.3	+ 3.5	25	1	7	1.07	+ 0.30	*	*	*	*	*
	Edenfel (Omagh)	54	36	49.9	40.6	45.4	+ 7.5	30	4	7	1.41	+ 0.55	*	*	*	*	*
	Blacksod Point	54	40	51.3	43.6	47.6	+ 4.3	39	0	7	2.21	+ 0.88	*	*	*	*	*
	Markree Castle	56	37	50.5	42.1	46.5	+ 7.0	32	0	7	2.07	+ 1.11	6.9	- 0.6	14	- 1	*
CHANNEL ISLANDS	Armagh	55	37	50.1	40.1	45.3	+ 6.5	31	5	6	1.19	+ 0.53	8.1	- 0.2	16	0	*
	Donaghadee	55	38	50.6	40.9	45.9	+ 4.5	32	3	5	1.20	+ 0.53	*	*	*	*	*
	Dublin	58	40	53.8	43.6	48.9	+ 7.2	48	0	5	0.91	+ 0.37	7.7	- 4.2	15	- 8	*
	Parsonstown	55	38	52.4	41.4	47.1	+ 7.2	38	2	6	1.47	+ 0.75	7.3	- 2.7	14	- 5	*
	Kilkenny	58	39	52.9	42.7	48.0	+ 7.1	42	0	7	1.43	+ 0.67	*	*	*	*	*
	Roche's Point	55	41	53.0	45.1	49.2	+ 4.8	50	0	5	1.97	+ 0.73	*	*	*	*	*
CHANNEL ISLANDS	Valencia	56	39	53.7	44.3	49.2	+ 3.8	50	0	7	1.98	+ 0.54	1.6	- 7.9	3	- 15	*
	Killarney	55	40	53.3	43.7	48.7	+ 5.1	47	0	6	3.94	+ 2.29	*	*	*	*	*
	Foynes	55	39	52.0	42.6	47.5	+ 5.3	39	0	7	2.48	+ 1.42	*	*	*	*	*
	Scilly (St. Mary's)	57	45	54.4	48.1	51.4	+ 4.1	66	0	6	0.47	- 0.48	11.5	-	21	-	*
	Jersey	55	44	52.9	47.3	50.2	+ 6.1	57	0	5	0.51	- 0.26	9.2	- 4.8	16	- 9	*

Stations Marked *all* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

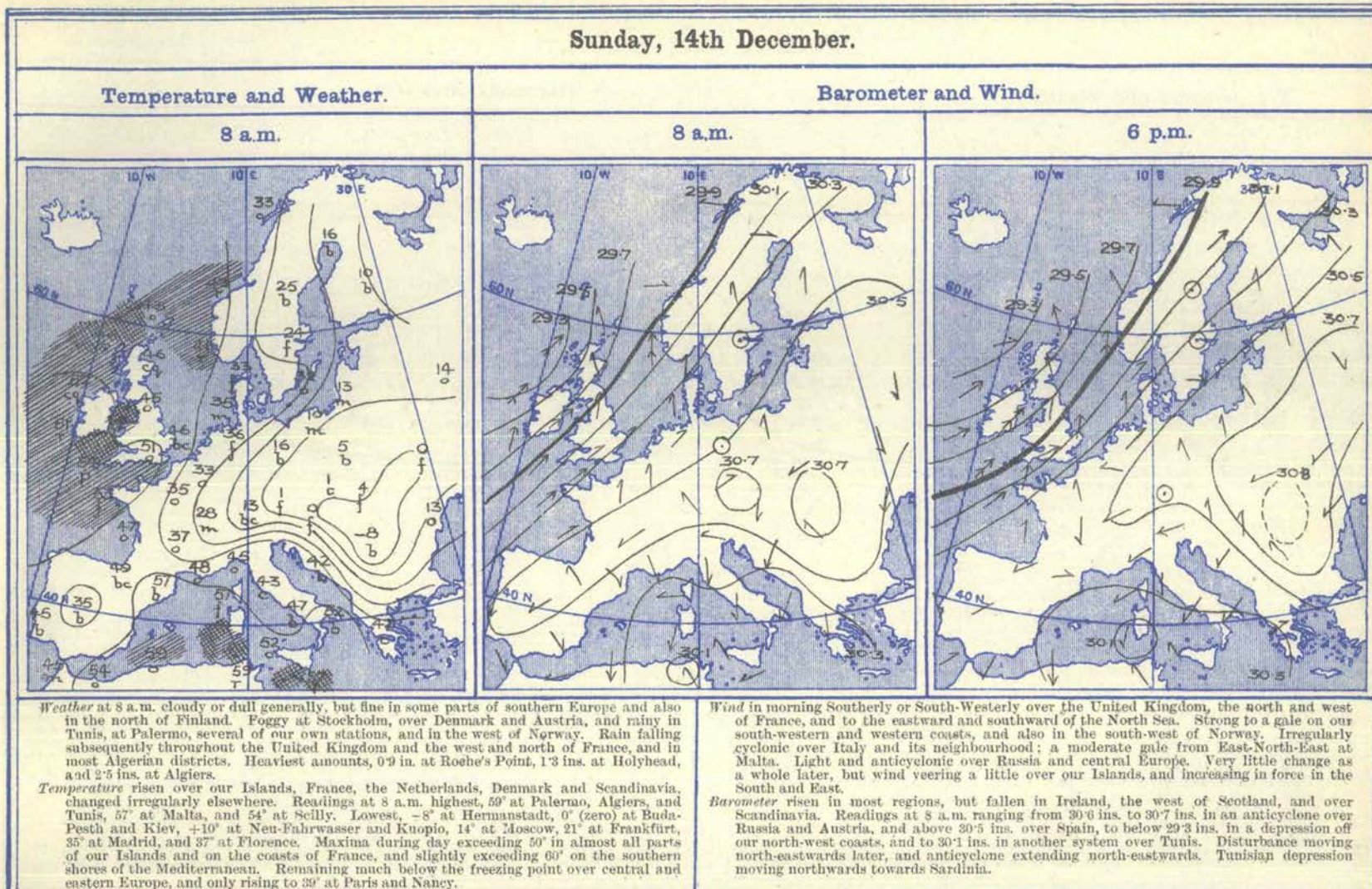
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

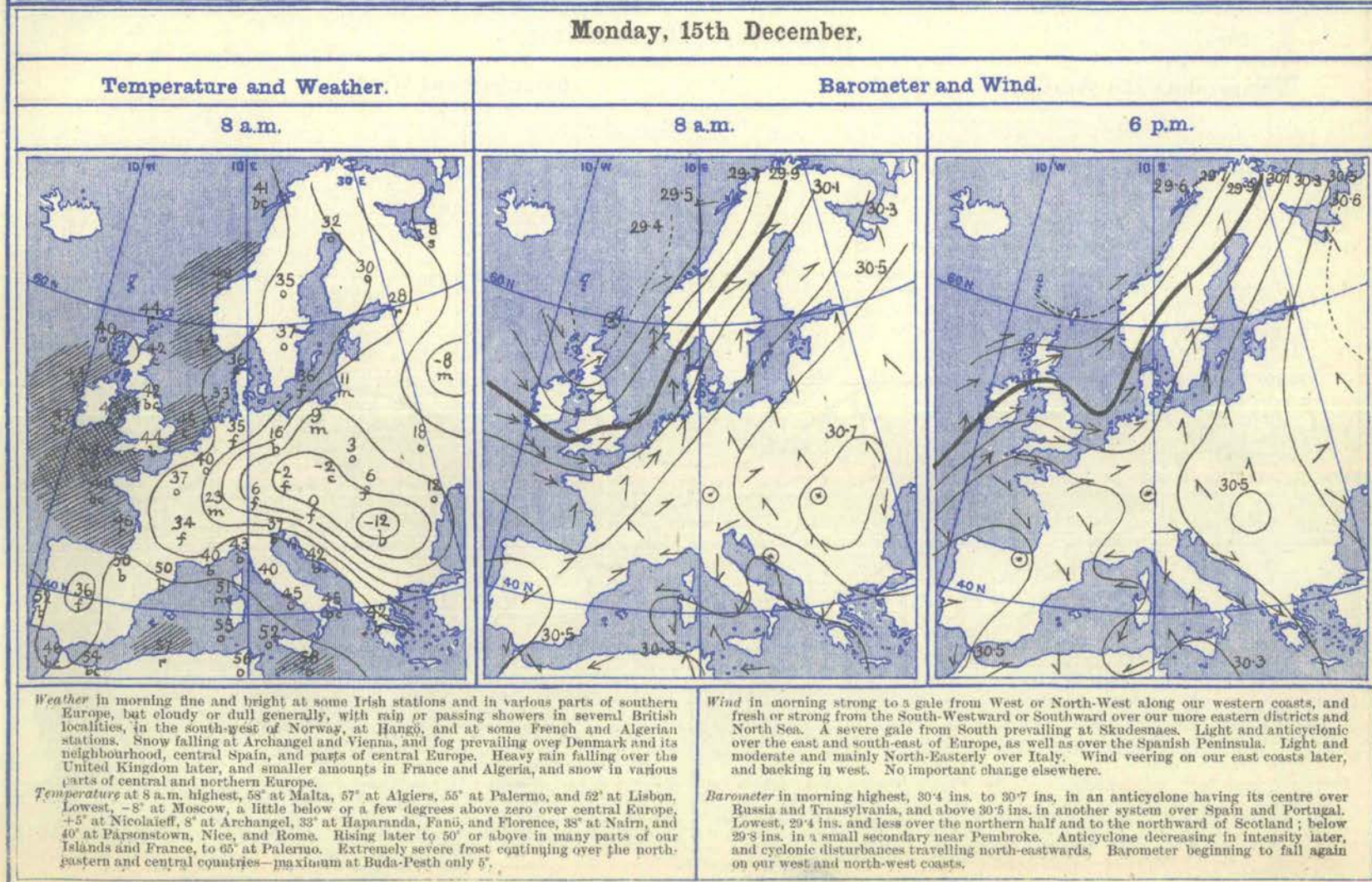
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Raucely; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 14th December.



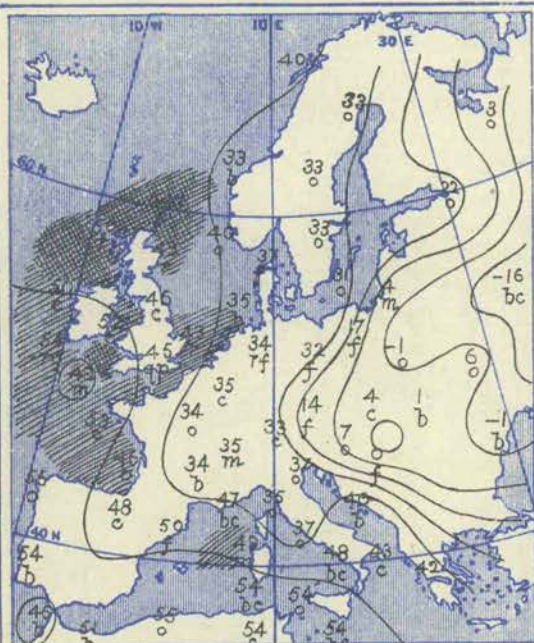
Monday, 15th December.



Tuesday, 16th December.

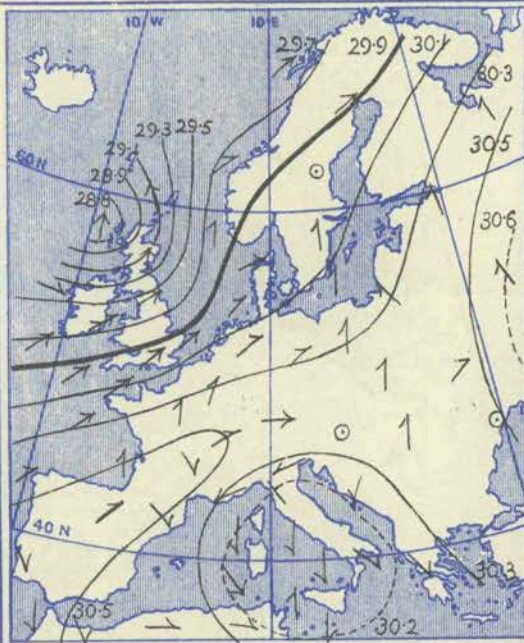
Temperature and Weather.

8 a.m.

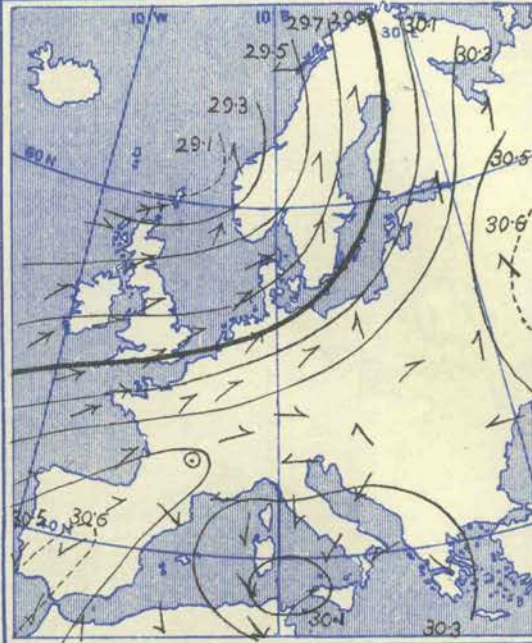


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over western Algeria, the Iberian Peninsula, Greece, and the northern shores of the Black Sea; cloudy or dull in almost all other regions, with rain over the United Kingdom and the north-east of France, at Cuxhaven and Uleaborg. Fog prevailing in the south of Scandinavia, Denmark, and at many German and Austrian stations. Rain falling during day over the British Islands, Denmark, the Netherlands, Germany, and most parts of France, Italy, and Scandinavia—as much as 2.4 ins. at Leghorn.

Temperature risen very quickly in Germany, and briskly over our own western districts; changed little or fallen elsewhere. Readings at 8 a.m. highest, 55° at Corunna and Algiers, and 54° at several Mediterranean stations; 55° at Donaghadee, and 54° at Leith and in southern Ireland. Lowest, -16° at Moscow, -4° at Nicolaieff, -1° at Warsaw, 0° (zero) at Buda-Pesth, +4° at Memel, 22° at St. Petersburg, 32° at Limoges and Turin, and 35° at Florence. Remaining much below 32° all day over Austria-Hungary and Russia, but exceeding 50° at nearly all our own and at many French stations, and touching 64° at Oran, and 66° at Palermo. Maximum only 45° at Rome.

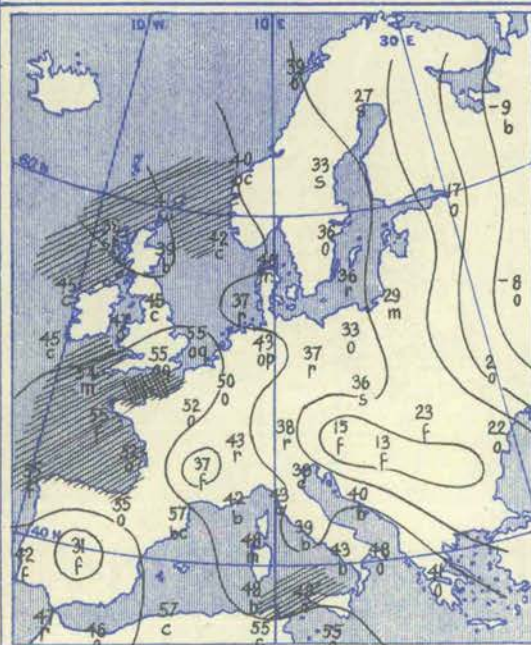
Wind in morning strong to a gale over our Islands and their neighbourhood—from West in Ireland, South-West in England, South in Scotland, and South-East in the Shetlands. Irregularly cyclonic over Italy and the Mediterranean, and blowing strongly from West-North-West at Palermo. Light and mainly Southerly over Russia and Scandinavia. Wind veering somewhat over our Islands during day, and decreasing a little in force. No great change elsewhere, but South-West easterly winds increasing in force on the eastern shores of the North Sea.

Barometer at 8 a.m. ranging from 30.6 ins. in an anticyclone over central Russia, and above 30.5 ins. over Spain and central France, to 30.2 ins. and less in a cyclonic disturbance of irregular form over Italy and its neighbourhood, and to below 28.8 ins. in the centre of a deep depression over the Hebrides. Northern disturbance moving briskly north-eastwards during day, and that over Italy growing deeper and less ill-defined. Pressure increasing with great rapidity in the Hebrides.

Wednesday, 17th December.

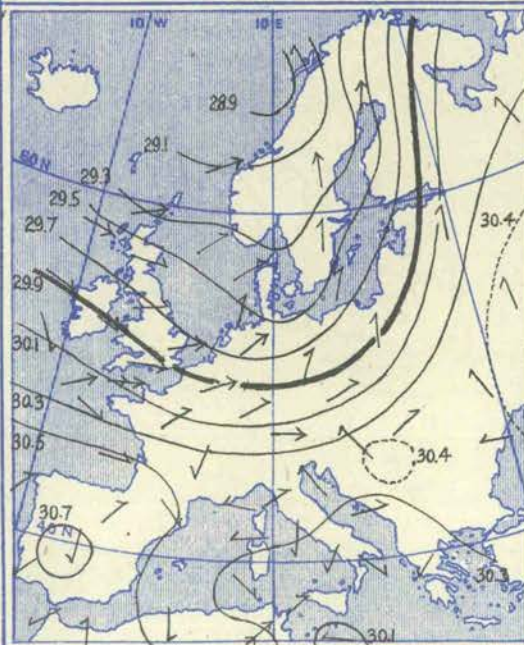
Temperature and Weather.

8 a.m.

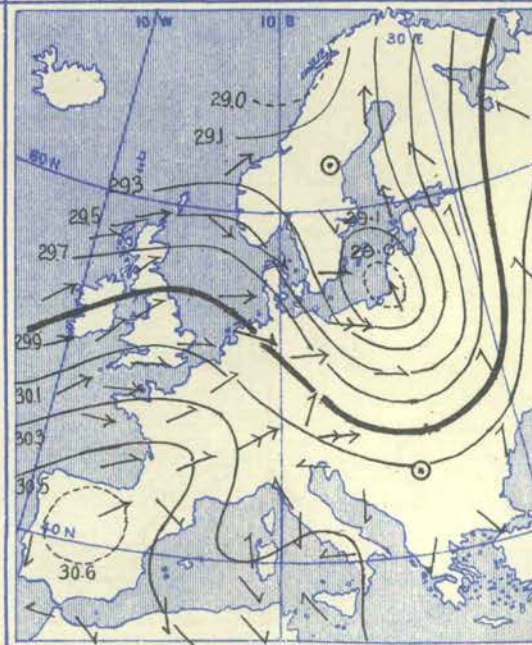


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. cloudy or dull generally, but fine in most parts of Italy and on the south coast of France. Rainy at several of our own stations, in Denmark, North Germany, and at San Fernando, Limoges, and Wisby, and snow falling at Haparanda and Breslau. Fog prevailing over central Europe and the Spanish Peninsula. Considerable rain later over the United Kingdom and the north of France, and heavy rain or snow over central and northern Europe—as much as an inch at Memel and Vienna.

Temperature fallen in Ireland, Scotland, the extreme north of Europe, in Little Russia, and Italy, risen elsewhere—very quickly over Germany and Austria-Hungary, and also at Paris. Readings at 8 a.m. highest, 57° at Algiers and Perpignan and Bath, 55° in London, at Brest, Biarritz, and Corunna. Lowest, -10° at Archangel, -9° at Buda-Pesth, 17° at St. Petersburg, 22° at Odessa, 31° at Pesaro and Madrid, 32° at Florence, and 33° at Hernösand. Rising later to 57° in London, 60° at Malta, 61° at Marseilles, and to 63° in Western Algeria. Not rising to 50° over northern Italy, and only slightly exceeding it at Rome, Naples, and Brindisi.

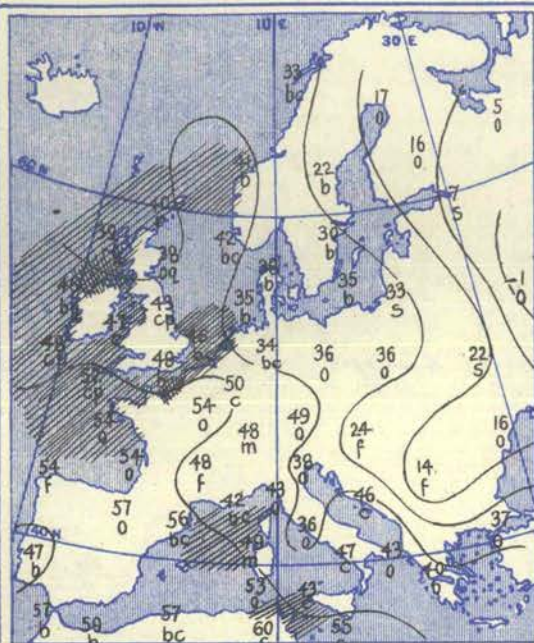
Wind in morning Westerly over our Islands, drawing into South-West over central Europe, and into South over Scandinavia and Russia. Strong to a gale in force over the United Kingdom, but more moderate elsewhere. Light and anticyclonic over the Spanish Peninsula, and irregularly cyclonic over Italy and the central parts of the Mediterranean. A fresh South-West gale reported at Tunis. Wind increasing to a gale over the Baltic and Germany later, that at Tunis subsiding.

Barometer at 8 a.m. highest, 30.7 ins. in an anticyclone over Spain and Portugal, 30.4 ins. and upwards in the eastern half of Russia, and in the neighbourhood of Buda-Pesth. Lowest 28.9 in a disturbance off the north-west of Norway. A deep and well-marked depression forming during day near Memel, and barometer at that station falling from 29.75 ins. to 28.94 ins. between 8 a.m. and 6 p.m. Secondary disturbances advancing over our Islands from the Atlantic.

Thursday, 18th December.

Temperature and Weather.

8 a.m.

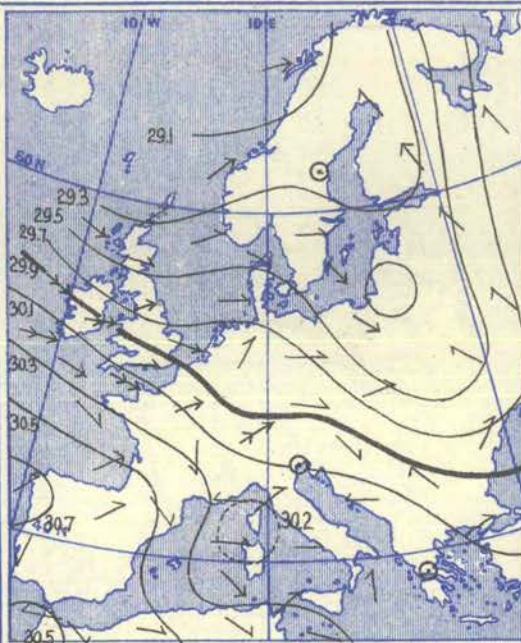


Weather at 8 a.m. fair at some of our own south-eastern stations, fine and bright in most parts of Scandinavia, Denmark, and the adjacent portion of Germany, the south-west and south of Spain, the Riviera, and Algeria. Cloudy or dull elsewhere, with rain in many parts of our Islands, the Netherlands, and Frankfurt; snow at Memel, Helsingfors, and St. Petersburg; and rain or snow at some stations in central Europe. Rain falling in most parts of the United Kingdom later, and also at most German and Austrian stations. Heavy snow at Helsingfors.

Temperature fallen over England, Sweden, and Finland; risen very quickly over Austria-Hungary and the south-east of Russia, as well as at Archangel. Readings at 8 a.m., highest, 60° at La Calle, 57° at Biarritz, 54° at Brest and Paris. Lowest, -1° at Moscow, +5° at Archangel, 7° at St. Petersburg, 14° at Hermanstadt, 16° at Odessa, 19° at Haparanda, 33° at Memel, and 36° at Rome. Maxima during day ranging from about 50° at some of our own western and southern stations to 63° at Perpignan and Marseilles, 64° at Palermo, and to 66° at Algiers.

Barometer and Wind.

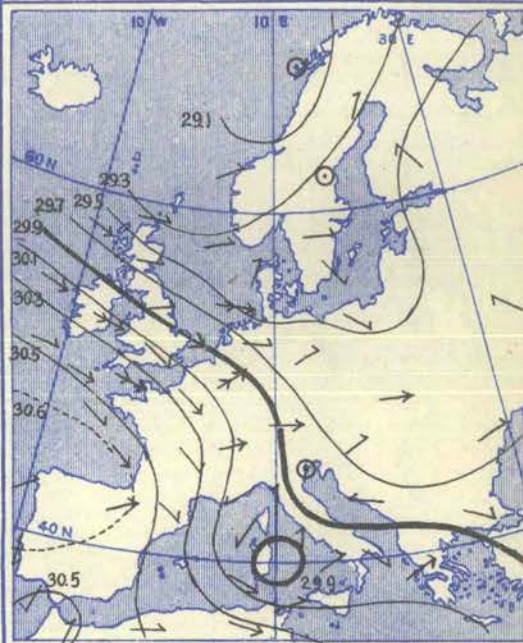
8 a.m.



Wind Westerly over the United Kingdom, France, Denmark, and central Europe, but drawing into the North-Westward in East Prussia, and into South-West and South-East over Russia and Finland. Strong to a gale over our Islands and Bavaria. Light and anticyclonic over the Spanish Peninsula, and light to fresh cyclonic over the Gulf of Genoa and its neighbourhood. Veering a little, but continuing strong in force over our Islands, and increasing to a gale over Denmark and North Germany. Becoming very strong from the North-Westward at Cape Sicily and Cagliari.

Barometer at 8 a.m. ranging from 30.6 ins. to 30.7 ins. in an anticyclone over Spain and Portugal to 29.2 ins. in a depression near Memel, and to 29.1 ins. and less in another system off the north-west of Norway. Less than 30.2 ins. in a shallow disturbance over the Gulf of Genoa. Last-mentioned depression increasing considerably in depth, and moving southwards later, and that near Memel apparently dispersing slowly. Secondary systems moved eastwards over Denmark.

6 p.m.



Friday, 19th December.

Temperature and Weather.

8 a.m.



Weather in morning fine and bright in Spain, the south of France, and on the shores of the Adriatic, but cloudy or dull generally. Showers of rain falling in the north of Ireland, and snow at Helsingfors. Rain falling later in many parts of our Islands, France, and Germany, and also at some stations in the Mediterranean; as much as 0.9 in. at Brindisi.

Temperature changed irregularly. Readings at 8 a.m. highest, 61° at Oporto, 60° at La Calle, 59° at Malta, and 55° at Patras. Lowest, -4° at Moscow, +6° at Kuopio, 12° at Helsingfors, 22° at Uleaborg, 27° at Memel, and 35° at Munich and Florence. Rising during day to 50° or above on our west and south-west coasts, to 59° at Nice, 60° at Rome, 64° at Algiers, and 66° at Palermo. Remaining below freezing point in Russia, Sweden, and also in some parts of Germany and Austria.

Barometer and Wind.

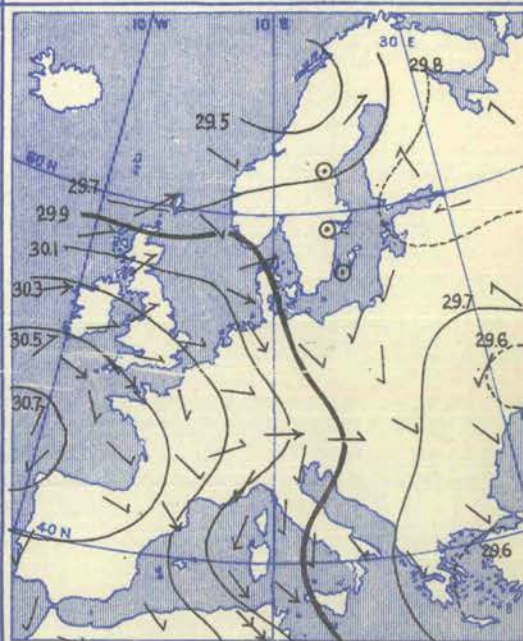
8 a.m.



Wind North-Westerly over the greater part of western Europe, but drawing into North-East in the south of Spain. Strong at several of our own stations and in the Netherlands, and also in the south of France, and blowing a fresh gale at Cagliari and Tunis. A complete cyclonic circulation shown over the Baltic and its neighbourhood, as well as over the extreme north of Norway. No important change as a whole later, but cyclonic circulation over the Baltic dying out.

Barometer at 8 a.m. ranging from 30.7 ins. over the Bay of Biscay, to 29.4 ins. and less in two depressions—one over the Baltic, and the other in the north of Norway. Some irregularities in pressure over the western half of the Mediterranean. Baltic depression dispersing or moving south-eastwards later, and that in Norway becoming rather less deep. A brisk fall of the barometer setting in over the north of Scotland.

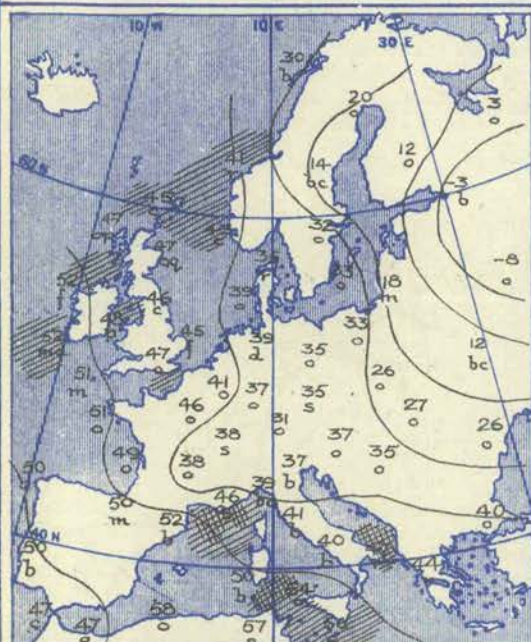
6 p.m.



Saturday, 20th December.

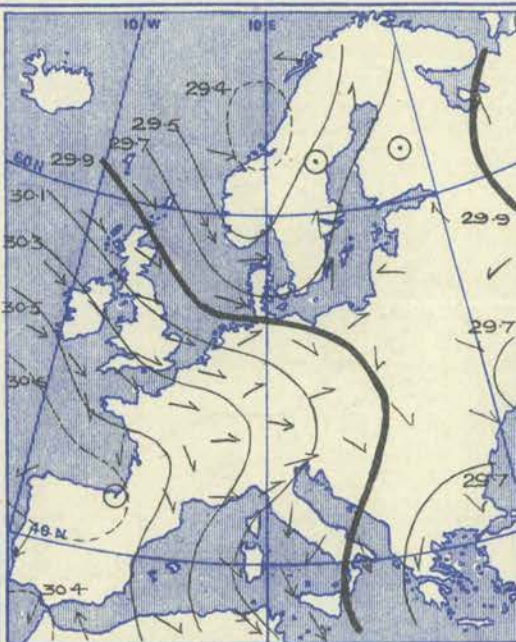
Temperature and Weather.

8 a.m.

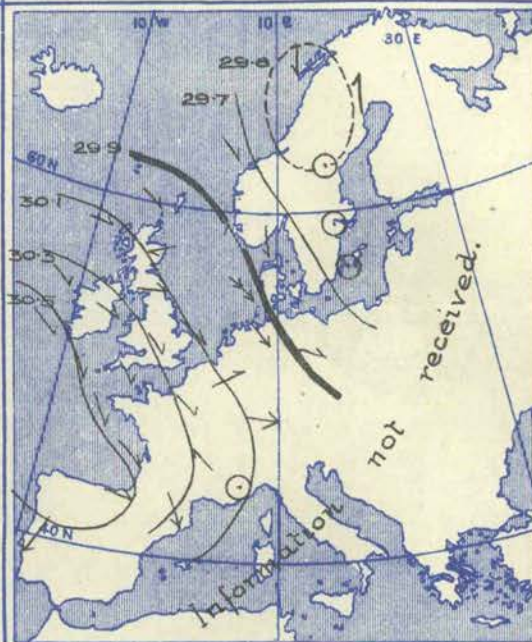


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in Portugal, the south of France, and the greater part of Italy. Dull in most other regions, with showers at Stornoway, rain at Limoges, Bilbao, Brindisi, and Athens, and snow at Karlstad and Prague. Rain falling later in most western and north-western parts of the Continent, and in the extreme north and west of our Islands.

Temperature fallen over Italy, risen in most other countries. Readings at 8 a.m. highest, 58° at Algiers, 56° at Malta, 54° at Oporto, 52° in the south and west of Ireland. Lowest, -8° at Moscow, -3° at St. Petersburg, +3° at Archangel, 13° at Kharkov, 20° at Nicolaieff, and 31° at Munich and Florence. Maximum readings during day above 50° over our Islands, 59° at Perpignan and Lisbon, but not exceeding 40° at Belfort, and 36° at Munich.

Wind in morning North-Westerly over our Islands and at Skudesnaes, Westerly or South-Westerly over Germany, Southerly over Sweden, and Easterly at Bodø. Strong at a few of our own stations, and blowing a gale in the south-west of Norway. Light and variable over Russia, and moderate to strong from between North-West and North over Italy and its neighbourhood. A gale reported at Tunis. Wind falling light or moderate in all parts of our Islands during day, and gale subsiding in the south-west of Norway.

Barometer at 8 a.m. highest, 30.6 ins. and upwards over the Bay of Biscay and the north of Spain; lowest, about 29.4 ins. in a depression over the north of Norway, and below 29.7 ins. in other systems over south-eastern Europe. Pressure increasing over our Islands and Scandinavia later, falling somewhat over France.

GENERAL NOTES.

During the earlier half of the week a large area of high pressure, having its centre over Russia, extended west-south-westwards to the Iberian Peninsula, while depressions—most of them large and rather deep—travelled in a general north-easterly direction over our western and north-western coasts, while other disturbances, less deep and rather ill-defined, prevailed over the Mediterranean and Italy. The former systems caused strong winds or gales from between South and West over the United Kingdom and its neighbourhood, while the winds circulating round the southern systems were also fresh to very strong in force. During Wednesday, however, the sudden development of a deep depression near Memel produced Westerly gales in the Baltic and Germany, and cut the high-pressure area into two parts, and as other disturbances soon appeared over Russia and central Europe, the only high-pressure area remaining over Europe was that over Spain. This anticyclone then increased, both in size and intensity,

and extended northwards to Ireland. With this change in the distribution of pressure, the wind over our Islands, France, and the North Sea, veered to West or North-West and decreased in force, while that over eastern Europe, which had been light from the Southward, became light and variable. Frequent and occasionally heavy rain was experienced over the United Kingdom during the earlier half of the period, as well as the north and west of France, and in Norway. Heavy rain also occurred at times in different parts of Italy and the Mediterranean, and on Thursday over Germany and Austria-Hungary. Snow fell occasionally over Russia and Finland, but, excepting on the 18th, when 1.6 ins. was measured at Helsingfors, the amounts were not large. Temperature was very high for the time of year over our Islands, but continued low over central Europe until the middle of the week, after which it rose very quickly and continued fairly high.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ——— = a heavy gale; ——— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and ○ = a calm. In the left hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the reading at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Belgium, and Holland; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 9.25 a.m. in Spain, and 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands; 4.36 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.25 p.m. in Spain; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Denmark, Norway, and Sweden; 8 p.m. in Austria and Italy, and 9 p.m. in Holland and Belgium. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 302.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNES	21	- 3.6	5	- 9	WORKSOP	3.2	- 3.7	6	- 7	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	3.6	- 3.3	8	- 8	THURCASTON	6.5	- 0.5	13	- 1	SOUTHPORT	3.6	—	7	—
EDINBURGH	1.3	- 3.7	3	- 8	MARGATE	10.4	- 0.1	19	0	RHYL	8.3	—	16	—
MORPETH	14.9	—	30	—	BROADSTAIRS	12.1	—	22	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	5.0	—	10	—	EASTBOURNE	13.8	+ 1.4	26	+ 3	ABERDOVEY	11.1†	—	22†	—
YORK	5.7	0.0	11	0	BRIGHTON	6.3	- 5.1	12	- 9	TENBY	12.6	+ 2.9	24	+ 6
CROMER	12.2	—	24	—	WORTHING	13.1	—	24	—	NEWQUAY	5.3	- 6.0	10	- 11
LOWESTOFT	10.4	—	20	—	BOGNOR	—	—	—	—	TORQUAY	11.8	- 0.1	22	0
DUNMOW	10.0	—	19	—	WATERGATE	11.8	—	22	—	GUERNSEY	7.8†	- 2.4	14†	- 4
HOLLESLEY BAY	15.2	—	29	—	WESTBOURNE	12.7†	+ 1.3	24†	+ 2					
SHEFFIELD	4.5	—	9	—	VENTNOR HOSPITAL	9.0	- 1.9	17	- 4					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, DECEMBER 27TH, 1902.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 308.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	30	48.7	40.5	44.8	7 above	Day-deg. 26	Day-deg. +19	Day-deg. 4	Day-deg. -28	Day-deg. 1899	Day-deg. -131	Day-deg. 794	Day-deg. -13
	1. SCOTLAND, EAST	54	27	49.4	38.9	44.4	7 above	30	+23	9	-29	2066	-318	931	+23
	2. ENGLAND, N.E.	54	28	49.9	40.9	45.6	8 above	30	+21	3	-30	2498	-121	620	-98
	3. ENGLAND, EAST	53	32	48.4	40.3	44.5	7 above	25	+16	5	-32	2915	-111	662	-130
	4. MIDLAND COUNTIES	55	30	49.2	41.6	45.6	8 above	27	+17	1	-37	2769	-193	686	-138
5. ENGLAND, SOUTH	53	28	48.8	40.9	45.0	8 above	26	+12	3	-25	3111	-243	480	-94	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	53	40	50.1	44.4	47.4	8 above	38	+26	0	-25	2441*	-124	575	-30
	7. ENGLAND, N.W.	53	38	49.2	44.1	46.7	7 above	33	+21	0	-26	2677	-145	530	-40
	8. ENGLAND, S.W.	53	30	49.7	42.7	46.4	5 above	31	+12	0	-19	3083	-99	415	-13
	9. IRELAND, NORTH	53	32	49.4	44.0	46.8	7 above	34	+20	0	-23	2559	-162	406	-120
	10. IRELAND, SOUTH	56	37	50.7	44.9	48.0	6 above	42	+20	0	-18	3138	-1	294	-97
	— CHANNEL ISLANDS	54	32	51.4	43.7	47.7	3 above	40	+10	0	-6	3762	-28	136	-12

DISTRICTS. (See p. 308.)		Rainfall.								Bright Sunshine.							
		For the Week.			From December 29th, 1901.					For the Week.				From December 29th, 1901.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 29	10ths of in. 16 more	248	+17	46.7	-4.3	1	-4	2	-9	1102	-18	25	0	
	1. SCOTLAND, EAST	4	5	1 less	211	+15	26.1	-5.6	4	-4	8	-8	1125	-173	26	-4	
	2. ENGLAND, N.E.	1	1	5 less	179	-3	21.4	-4.2	6	-2	12	-5	1209	-71	28	-2	
	3. ENGLAND, EAST	2	1	4 less	174	-10	21.9	-3.4	6	-5	11	-9	1558	-82	33	-2	
	4. MIDLAND COUNTIES	2	1	5 less	176	+1	24.1	-3.9	6	-4	11	-8	1281	-59	31	-1	
5. ENGLAND, SOUTH	2	1	6 less	174	+2	25.1	-3.4	7	-4	13	-8	1569	-124	34	-3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	12	1 less	223	+17	51.3	0.0	2	-4	4	-9	1225	-115	28	-3	
	7. ENGLAND, N.W.	3	3	5 less	207	+14	28.2	-7.1	4	-3	7	-6	1443	+92	33	+2	
	8. ENGLAND, S.W.	3	2	8 less	192	-7	32.5	-8.2	2	-9	4	-16	1529	-122	35	-3	
	9. IRELAND, NORTH	4	4	5 less	244	+17	35.6	-0.8	1	-7	3	-14	1234	-34	28	-1	
	10. IRELAND, SOUTH	3	3	8 less	206	-2	35.9	-5.3	2	-9	3	-18	1393	-65	32	-2	
	— CHANNEL ISLANDS	3	1	8 less	208	+7	27.8	-5.8	12	+3	21	+5	1734	-180	40	-4	

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather was again very mild in all parts of the Kingdom. In most districts it was dull but dry; as the week drew towards its close, however, rain, which had previously fallen in the extreme north and west only, extended to all parts of the country.

Temperature continued very high for the time of year. In England N.E., the Midland Counties, and Scotland W. it was 8° above the mean, and in most other districts 7°; in England S. and S.W., however, the excess was no more than 5°, and in the Channel Islands only 3°. The highest of the maxima were recorded on rather irregular dates, and ranged from 56° in Ireland S. and 55° in the Midland Counties, to 52° in Scotland N. The lowest of the minima occurred about the middle of the week, when they varied from 27° in Scotland E., and 28° in England N.E. and S., to 37° in Ireland S., 38° in England N.W., and to 40° in Scotland W. During the greater part of the time the nights were very mild, the minimum readings being between 40° and 50°.

Rainfall was much less than the mean over the Kingdom as a whole, but only slightly less in Scotland W. and E., and much more than the normal in Scotland N.

Bright Sunshine was very deficient except in the Channel Islands. In the district just named

the percentage of the possible duration was 21, while elsewhere the percentage varied from 13 in England S., and 12 in England N.E., to 4 in England S.W. and Scotland W., 3 in Ireland, and 2 in Scotland N.

Barometer and Wind.—At the commencement of the week the barometer was highest to the westward and south-westward of our Islands, and on the 22nd nearly the whole of the Kingdom was included in an anticyclone which subsequently moved south-eastwards, and continued in existence, with but little variation in intensity throughout the period—at first over Germany, and later on over Spain and the south-west of France. No depression appeared over our Islands during the earlier days, but during the latter half of the period some large and deep systems travelled over our north-western and northern coasts. These caused the wind, which was at first light in force and rather variable in direction, to become South-Westerly to Westerly very generally, and to blow a very severe gale in the north-west and north, and a moderate to fresh gale on our other coasts. At the end of the period a fresh disturbance was approaching our north-west coasts, and the wind was again increasing to a gale from the South-Westward.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
											Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	49	32	46.6	39.7	43.3	+ 4.0	19	6	7	1.81	+ 0.83	*	*	*	*
	Stornoway	51	36	50.1	41.7	46.1	+ 7.0	30	1	6	1.70	+ 0.46	0.5	- 4.9	1	- 11
	Wick	52	36	49.3	38.9	44.3	+ 6.3	29	9	6	1.30	+ 0.63	*	*	*	*
	Lairg	49	32	47.3	38.4	43.0	+ 8.3	22	10	5	2.32	+ 1.43	*	*	*	*
	Glencarron	50	30	48.3	38.4	43.6	+ 6.9	26	10	7	2.20	+ 4.93	*	*	*	*
	Fort Augustus	51	37	49.1	42.6	46.0	+ 8.0	23	0	5	2.65	+ 1.48	0.1	- 2.2	0	- 5
1. SCOTLAND E.	Fort William	52	40	50.1	43.6	47.0	+ 7.8	35	0	7	3.61	+ 1.38	0.0	- 3.2	0	- 7
	Nairn	52	36	50.3	40.3	45.5	+ 8.0	32	5	6	1.15	+ 0.68	*	*	*	*
	Aberdeen	54	27	49.4	36.1	43.0	+ 5.3	32	17	4	0.21	- 0.46	5.2	- 4.1	11	- 9
	Braemar	50	30	47.0	36.9	42.2	+ 8.0	23	14	3	0.78	+ 0.05	*	*	*	*
	Ochertyre	53	32	51.0	38.0	44.8	+ 7.9	36	11	4	0.55	- 0.46	*	*	*	*
	Leith	52	39	50.7	43.1	47.1	+ 8.0	36	0	2	0.25	- 0.17	*	*	*	*
2. ENGLAND, N.E.	Marchmont	53	33	47.9	39.0	43.6	+ 7.3	24	8	2	0.19	- 0.48	5.5	- 2.0	12	- 4
	Alnwick Castle	54	35	50.4	40.8	45.8	+ 7.8	32	2	2	0.15	- 0.49	*	*	*	*
	Durham	52	28	49.7	39.2	44.7	+ 7.7	31	8	1	0.06	- 0.49	10.6	+ 1.0	22	+ 2
	Shields	54	33	50.7	40.1	45.6	+ 6.8	33	5	1	0.06	- 0.43	*	*	*	*
	Scarborough	54	34	50.8	40.4	45.8	+ 7.1	33	3	2	0.12	- 0.46	2.7	-	5	-
	Spurn Head	51	42	48.7	42.9	45.9	+ 7.0	27	0	1	0.02	- 0.41	*	*	*	*
3. ENGLAND, E.	Fulbeck (Lincolnshire)	53	39	49.2	42.0	45.7	+ 8.9	26	0	0	0.00	- 0.43	4.0	-	8	-
	Hillington	51	32	48.9	39.7	44.5	+ 7.3	27	6	2	0.08	- 0.45	5.3	- 4.1	10	- 8
	Yarmouth	51	35	47.4	39.7	43.7	+ 5.8	22	6	3	0.18	- 0.35	*	*	*	*
	Geldeston	52	35	48.7	39.5	44.3	+ 6.2	27	7	3	0.07	- 0.37	8.7	- 2.2	16	- 4
	Cambridge	53	34	50.4	40.8	45.8	+ 8.3	32	3	2	0.01	- 0.38	3.7	- 5.8	7	- 11
	Felixstowe	50	34	46.5	40.6	43.7	+ 5.2	18	4	2	0.02	-	9.9†	-	19†	-
4. MIDLAND COUNTIES	Rothamsted	52	33	48.4	41.4	45.0	+ 7.3	24	2	2	0.03	- 0.52	3.9	- 5.7	7	- 11
	Harrogate	53	39	48.8	41.6	45.3	+ 8.4	25	1	4	0.45	- 0.23	14.1	-	23	-
	Bawtry (Hesley Hall)	53	38	50.9	42.4	46.8	+ 9.8	34	0	1	0.11	- 0.35	*	*	*	*
	Loughborough	52	40	49.4	43.9	46.8	+ 8.8	34	0	1	0.03	- 0.47	*	*	*	*
	Colly Weston (Stamford)	51	36	49.6	41.3	45.6	+ 8.6	28	2	2	0.02	- 0.45	*	*	*	*
	Cheadle	51	38	47.8	41.8	44.9	+ 8.0	21	1	4	0.14	- 0.56	*	*	*	*
5. ENGLAND, S.	Birmingham (Mid. Inst. Obs.)	50	35	47.8	41.7	44.9	+ 6.6	22	1	2	0.07	- 0.43	3.2	-	6	-
	Churchstoke	51	32	49.3	42.2	45.9	+ 7.7	27	0	2	0.25	- 0.45	7.0	- 2.3	14	- 5
	Hereford	52	30	49.8	39.7	45.0	+ 6.3	31	6	1	0.03	- 0.52	*	*	*	*
	Cirencester	55	30	49.8	38.6	44.4	+ 6.8	31	10	1	0.07	- 0.57	3.6	- 5.8	7	- 11
	Oxford	51	36	49.0	42.9	46.1	+ 7.4	29	0	1	0.02	- 0.45	4.1	- 5.5	8	- 10
	London	52	35	50.0	42.3	46.3	+ 7.1	30	0	1	0.06	- 0.41	2.8†	- 1.9†	54	- 4†
6. SCOTLAND, W.	Swarraton (Alresford)	50	28	47.7	39.2	43.6	+ 5.9	23	8	2	0.07	- 0.63	*	*	*	*
	Dungeness	51	28	48.1	38.7	43.6	+ 3.3	25	9	3	0.08	- 0.38	9.2	-	17	-
	Hastings (St. Leonards)	51	32	48.3	39.6	44.1	+ 3.7	25	7	2	0.05	- 0.59	8.7	- 4.3	16	- 8
	Southampton	53	33	50.0	41.8	46.1	+ 5.7	30	1	2	0.03	- 0.67	2.3	- 8.7	4	- 16
	Portland Bill	52	35	49.6	42.9	46.4	+ 4.0	31	0	1	0.02	-	*	*	*	*
	Shaftesbury	48	38	47.6	41.5	44.7	+ 7.7	21	1	3	0.11	- 0.60	*	*	*	*
7. ENGLAND N.W.	Laudale (Loch Sunart)	53	41	51.4	44.1	47.9	+ 7.5	41	0	7	3.56	+ 1.46	*	*	*	*
	Glasgow	52	40	49.5	44.0	46.9	+ 8.4	34	0	4	0.64	- 0.30	2.0	- 1.9	4	- 4
	Cally	53	40	49.2	43.2	46.3	+ 7.9	30	0	3	0.72	- 0.45	*	*	*	*
	Douglas (Isle of Man)	52	41	50.3	46.1	48.3	+ 7.0	44	0	1	0.04	- 1.00	2.1	- 7.0	4	- 14
	Newton Reigny	52	38	48.6	41.3	45.1	+ 7.6	25	2	3	0.78	-	0.2	-	0	-
	Stonyhurst	49	42	47.3	43.9	45.7	+ 7.7	26	0	4	0.59	- 0.46	4.3	- 1.6	9	- 3
8. ENGLAND, S.W.	Blackpool	51	42	48.9	44.4	46.7	+ 7.7	33	0	3	0.94	- 0.67	3.1	- 2.9	6	- 6
	Manchester (Prestwich)	52	42	48.6	43.9	46.3	+ 8.3	30	0	4	0.30	- 0.53	2.3	-	5	-
	Liverpool Obsy. (Bidston)	53	43	49.7	44.3	47.1	+ 7.2	36	0	2	0.20	- 0.37	4.7	-	9	-
	Chester	—	—	—	—	—	—	—	—	?	0.05	-	*	*	*	*
	Llandudno	53	43	51.6	45.1	48.5	+ 6.7	46	0	4	0.41	- 0.27	3.8	- 4.6	8	- 9
	Holyhead	51	45	49.4	45.9	47.7	+ 4.9	40	0	3	0.20	- 0.65	*	*	*	*
9. IRELAND, N.	Llandovery	52	30	49.3	41.4	45.5	+ 7.3	27	2	4	0.38	- 0.80	*	*	*	*
	Pembroke	52	43	51.1	45.9	48.6	+ 4.8	46	0	2	0.11	- 0.81	0.8	- 9.3	2	- 18
	Clifton	52	35	49.0	42.6	45.9	+ 6.2	27	0	2	0.21	- 0.55	*	*	*	*
	Bath	52	31	50.1	41.9	46.2	+ 6.7	30	0	1	0.09	- 0.58	1.2	-	2	-
	Arlington (N. Devon)	49	31	47.6	40.9	44.4	+ 4.2	21	3	4	0.42	- 0.90	*	*	*	*
	Cullompton	52	32	50.1	41.7	46.1	+ 6.8	30	1	3	0.16	- 0.67	4.4	- 4.5	8	- 8
10. IRELAND, S.	Falmouth	53	40	50.4	45.1	47.9	+ 3.5	41	0	3	0.10	- 1.14	4.3	- 8.2	8	- 15
	Plymouth	52	34	50.0	42.4	46.4	+ 3.8	31	0	3	0.12	- 0.81	0.7	- 10.5	1	- 19
	Malin Head	50	40	48.3	44.1	46.3	+ 4.6	30	0	6	0.58	- 0.15	*	*	*	*
	Edenfel (Omagh)	51	32	48.1	41.7	45.0	+ 7.8	22	1	3	0.36	- 0.48	*	*	*	*
	Blacksod Point	53	46	50.7	47.6	49.2	+ 6.1	50	0	6	0.48	- 0.86	*	*	*	*
	Markree Castle	53	42	50.0	44.4	47.3	+ 8.1	37	0	6	0.49	- 0.46	0.2	- 7.7	0	- 15
CHANNEL ISLANDS	Armagh	53	39	49.9	43.2	46.7	+ 8.1	33	0	2	0.17	- 0.48	2.4	- 6.2	5	- 12
	Donaghadee	52	40	49.4	43.1	46.4	+ 5.4	31	0	3	0.07	- 0.58	*	*	*	*
	Dublin	53	40	51.7	45.2	48.6	+ 7.0	46	0	2	0.25	- 0.28	3.2	- 9.0	6	- 18
	Parsonstown	51	40	49.1	44.0	46.7	+ 7.1	33	0	4	0.44	- 0.26	0.8	- 9.6	2	- 19
	Kilkenny	52	41	50.0	44.1	47.2	+ 6.6	36	0	3	0.30	- 0.46	*	*	*	*
	Roche's Point	53	45	51.3	46.9	49.2	+ 5.2	50	0	2	0.06	- 1.17	*	*	*	*
CHANNEL ISLANDS	Valencia	53	44	51.3	47.1	49.3	+ 4.2	51	0	6	0.39	- 1.04	0.9	- 9.1	2	- 17
	Killarney	56	38	52.0	44.7	48.5	+ 5.1	46	0	3	0.09	- 1.52	*	*	*	*
	Foynes	52	37	49.8	42.2	46.2	+ 4.4	29	0	2	0.40	- 0.60	*	*	*	*
	Scilly (St. Mary's)	54	39	52.1	45.1	48.7	+ 1.9	47	0	2	0.02	- 0.91	4.1	-	8	-
	Jersey	53	32	50.7	42.3	46.7	+ 3.2	33	0	4	0.16	- 0.68	20.5	+ 6.3	37	+ 11

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

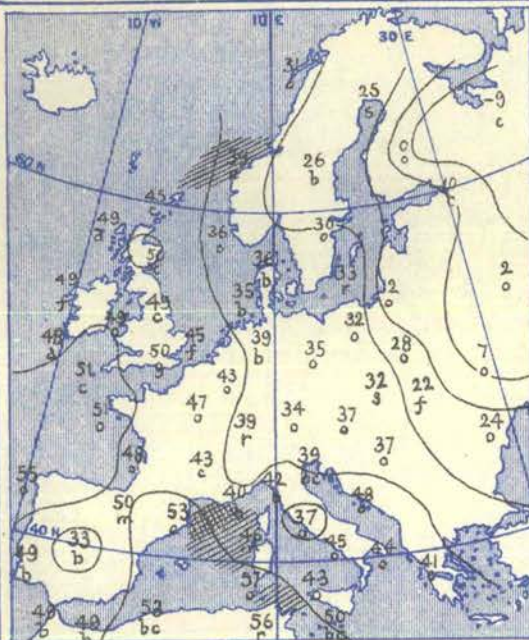
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 21st December.

Temperature and Weather.

8 a.m.

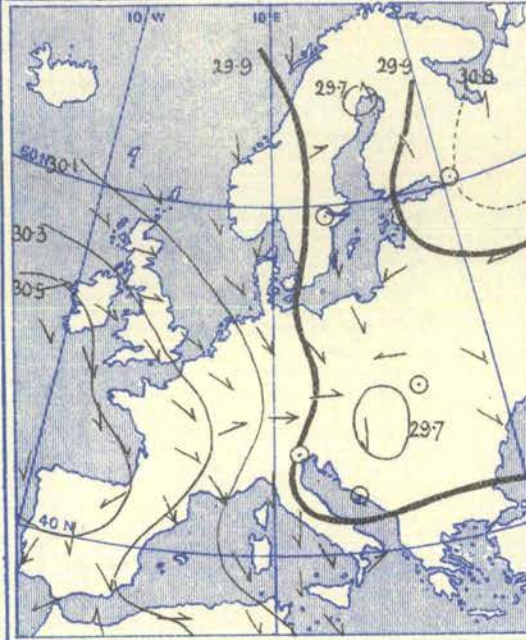


Weather in morning fine and bright over Spain and Portugal, the Riviera, western Algeria and at some Swedish stations; cloudy or dull in nearly all other regions. Rain falling in parts of Ireland and Scotland, Gothland, at Belfort and La Calle, and snow at Haparanda and Cracow. Rain falling on the Norfolk coast during day, as well as on the west coast of Norway and at several Italian stations, and a considerable amount of snow at Vienna and Hermanstadt.

Temperature changed rather irregularly, but fallen in most localities. Readings at 8 a.m. ranging from 60° at Alicante, 58° at Palermo, 56° at La Calle, and 51° or 50° at several British stations, to 37° at Rome, 33° at Florence and Madrid, 30° at Stockholm, 28° at Warsaw, 22° at Lemberg, 10° at St. Petersburg, 0° (zero) at Kuopio, -2° at Moscow, and -9° at Archangel. Rising subsequently to 50° or above in most parts of our Islands and France, 59° at Corunna and Cagliari, 63° at Algiers, 64° at San Fernando, and to 66° at Barcelona. Only rising to 44° at Florence, 34° at Cracow, 12° at Memel, and to 1° at St. Petersburg.

Barometer and Wind.

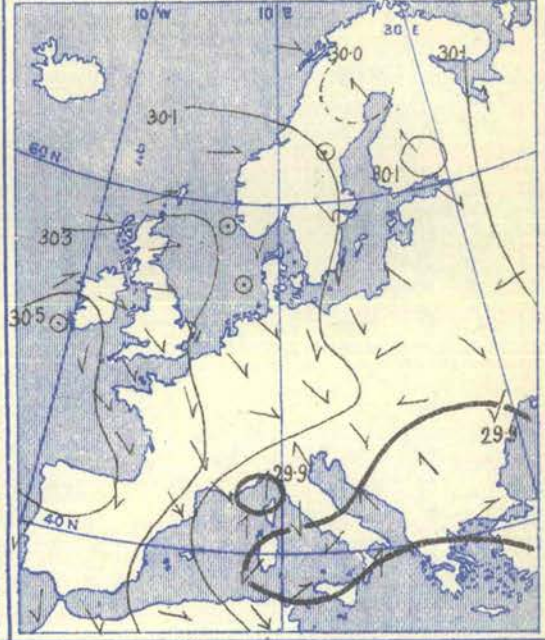
8 a.m.



Wind in morning irregularly cyclonic over the western part of the Mediterranean and also over central Europe; light or moderate generally, but North-Westerly wind blowing a moderate gale at Cape Sicily. Light or moderate North-Westerly breezes prevailing over Norway, Denmark, Germany, France, and the United Kingdom, and light Easterly or South-Easterly airs over Finland and northern Russia. No great or general change later, but wind backing somewhat on our extreme west and north coasts.

Barometer fallen in most parts of central and southern Europe, risen in most northern regions. Readings at 8 a.m. highest, 30.5 ins. and upwards over the Bay of Biscay and the south of Ireland, and above 30.0 ins. over the north of Russia. Lowest, 29.7 ins. and less over Hungary, and nearly as low in the north of the Gulf of Bothnia. Barometer rising decidedly later in the two regions just mentioned, but not changing much elsewhere.

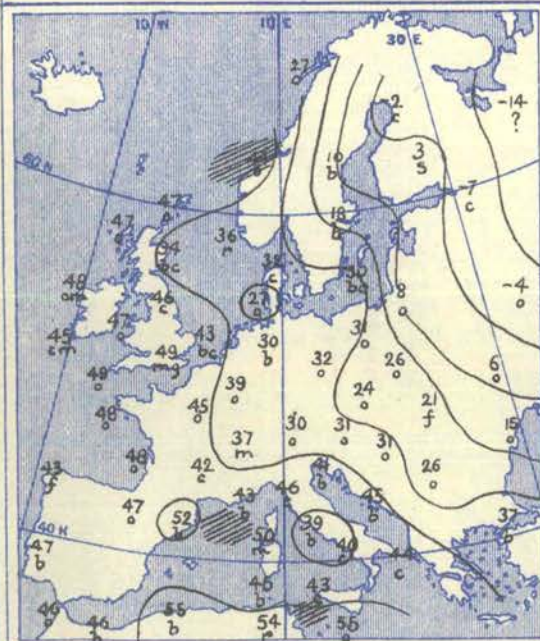
6 p.m.



Monday, 22nd December.

Temperature and Weather.

8 a.m.

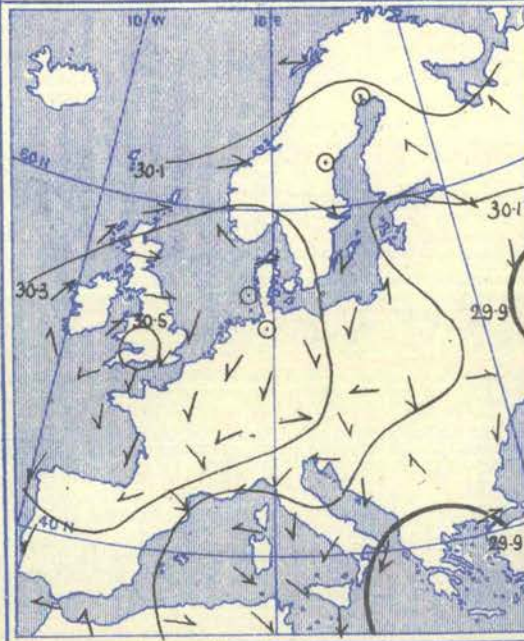


Weather in morning fine and bright in the north-east of Scotland, Sweden, the Netherlands, the south of France, Italy, and the Adriatic; cloudy or dull elsewhere. Snow falling in Finland, rain at Limoges and La Calle, and fog prevailing at Yarmouth, Cape Gris Nez, and Corunna. Slight rain at a few of our own stations later, and as much as 1.4 ins. at Pesaro; some snow in Austria-Hungary.

Temperature fallen in most places. Readings at 8 a.m. highest, 55° at Malta and Algiers, 52° at Perpignan, 49° at Scilly and in London. Lowest, -14° at Archangel, -4° at Moscow, -1° at Haparanda, +1° at Nicolaieff, 8° at Memel, 16° at Karlstad, 27° at Fano, 30° at Munich, and 32° at Florence. Rising later to about 50° at a few of our own southern and south-western stations, to 54° at Nice, 59° at Marseilles, 61° at Barcelona, 64° at Algiers, and 65° at Pesaro. Remaining below 32° over most parts of central and eastern Europe.

Barometer and Wind.

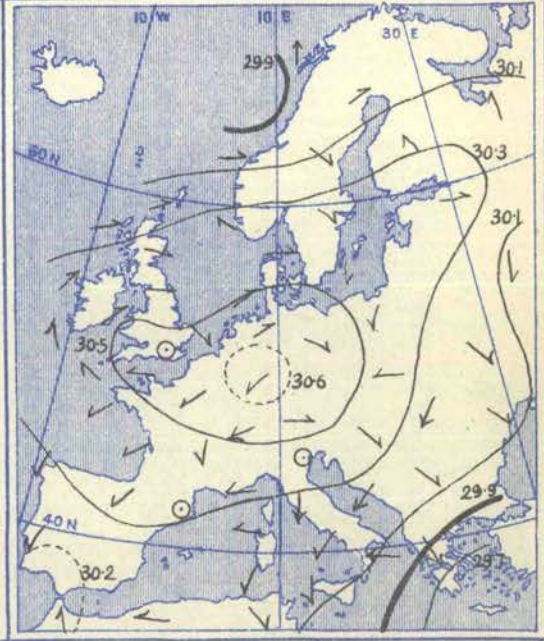
8 a.m.



Wind in morning light from South-West or West over all our own more northern districts, drawing into North-West or North over Sweden, the Baltic, and central Europe, and into north-east of France and Spain. Fresh or strong and cyclonic over Italy and its neighbourhood. Latter current increasing somewhat in force later, and a moderate Northerly gale setting in at Athens. Very little change elsewhere.

Barometer fallen over Spain and Algeria, risen in most other regions. Readings at 8 a.m. ranging from 30.3 ins. to 30.5 ins. in a large anticyclone embracing the United Kingdom, the North Sea, Denmark, Germany, France, and the north of Spain, to 29.9 ins. and less in two shallow depressions—one over central Russia, and the other over Greece. Anticyclone extending eastwards later, and barometer falling in north of Scandinavia. Rising over Italy and its neighbourhood.

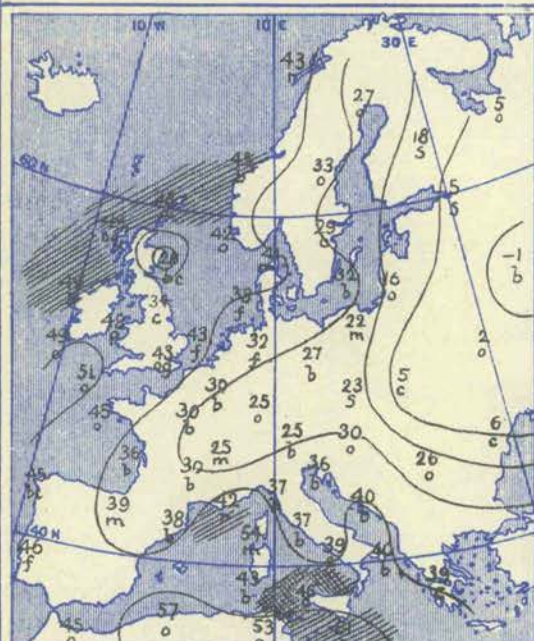
6 p.m.



Tuesday, 23rd December.

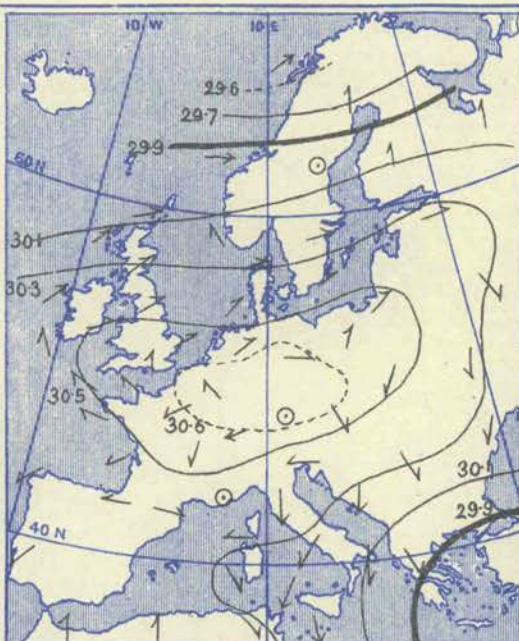
Temperature and Weather.

8 a.m.

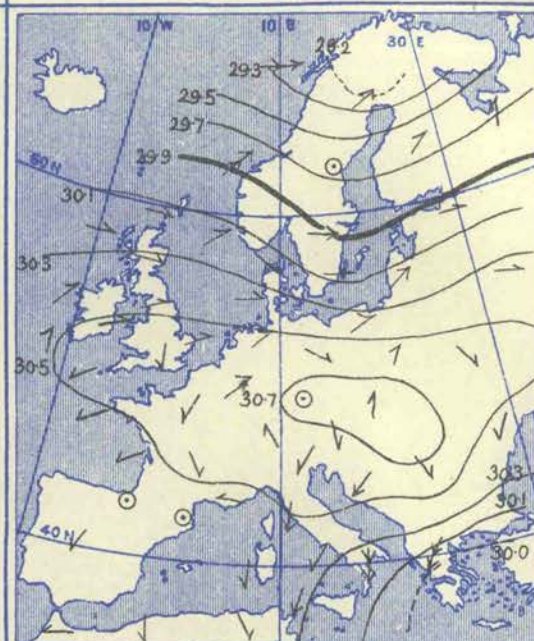


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the east of Scotland, but cloudy or dull over our Islands and the northern and central parts of the Continent generally, with passing showers at a few of our western stations, steady rain at Bodø and Hango, and snow at Uleaborg and St. Petersburg, as well as at Breslau and Cracow; fog reported over Holland, Denmark, and the south of Scandinavia. Fine over the greater part of France and southern Europe, but rainy in the extreme south of France. Rain falling later in the extreme north and north-west of our Islands generally.

Temperature fallen in most countries, but risen slightly in Ireland and rapidly in Sweden. Morning readings highest, (1) 57° at Algiers, 53° at La Calle, and 51° at Malta; (2) 51° at Scilly and 50° at Roche's Point, above 45° in many parts of the United Kingdom, but below the freezing point in the east of Scotland. Lowest, -2° at Kharkov, -1° at Moscow, and +2° at Kiev; below the freezing point over eastern and central Europe generally. Rising during day to 50° or slightly above it at several of our own western and southern stations, and also in the extreme north of Scotland.

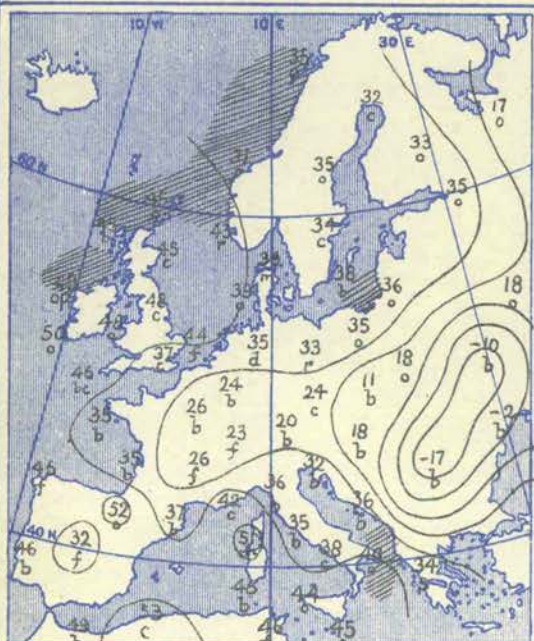
Wind South-Westerly over the northern parts of our Islands and the Continent generally, and strong in force in the Hebrides and the north-west of Norway. North-Easterly or Northerly in Italy, with a gale at Brindisi; Easterly or North-Easterly in France, South-Easterly in the extreme south of our Islands, light and variable in Germany, North-Westerly in Austria. Subsequently increasing to a strong gale from the Westward or South-Westward in the west of Norway; no important change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards over Germany and Belgium; 30.4 ins. and upwards in an anticyclone covering all the more central parts of the Continent, and extending westwards over England and Ireland. Lowest, 29.6 ins. and less in a cyclonic system off the northern part of the Norwegian coasts. Anticyclone increasing somewhat in intensity during day; cyclonic disturbance in far north travelling eastwards.

Wednesday, 24th December.

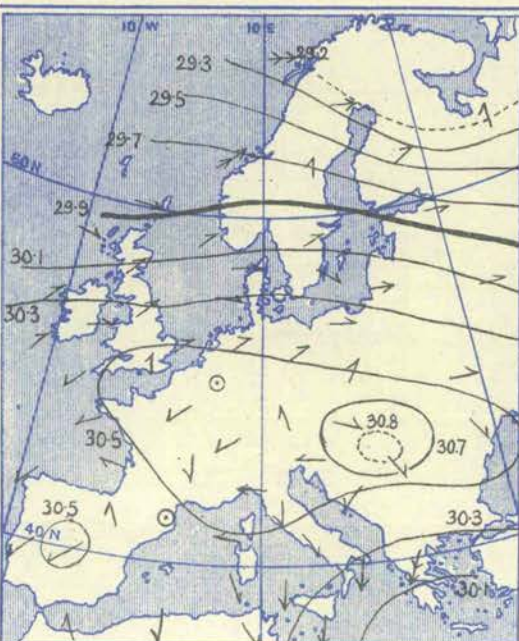
Temperature and Weather.

8 a.m.

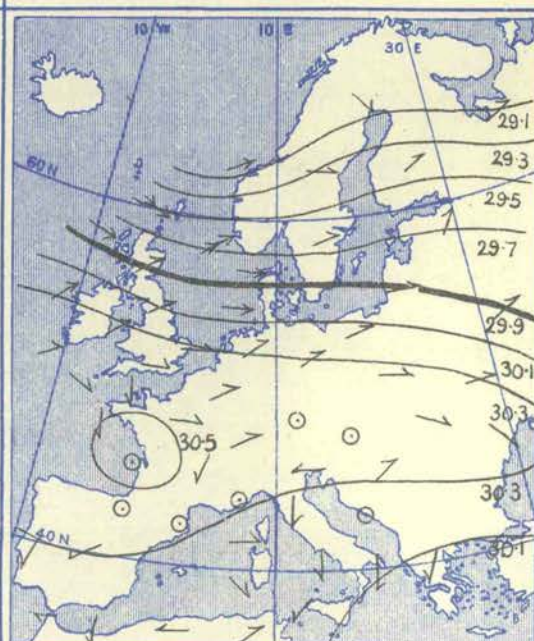


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine on the south and east coasts of England, and also over the greater part of France and southern Europe, but foggy over central France, and also at Corunna and Madrid. Cloudy or dull in most other parts of Europe, but showery in the west of Ireland, and rainy in the west of Norway, as well as in north Germany; fog reported in Denmark and snow at Athens. Rain falling later over nearly the whole of Ireland and Scotland; no material change occurring elsewhere.

Temperature fallen considerably over Austria and the south of Russia, and to a less extent in France and the south of our Islands, risen elsewhere. Morning readings highest, (1) 53° at Algiers, and 49° at Oran; (2) 50° at Valencia, and 49° at Leith and Roche's Point. Lowest, -17° at Hermanstadt, -11° at Kharkov, and -10° at Kiev; considerably below the freezing point over nearly the whole of Russia and Austria, and a few degrees below it over Germany, Belgium, and central France. Rising during day to 50° or slightly above it at several of our own western and northern stations, but not exceeding 44° in London. Exceeding 50° over the Spanish Peninsula and the extreme south of France.

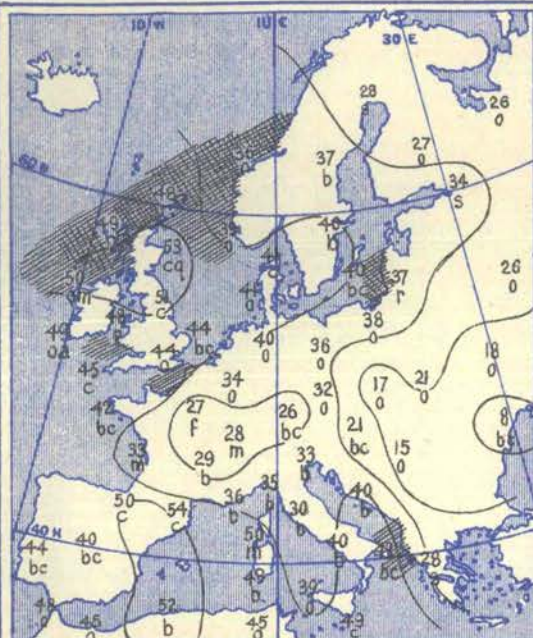
Wind Westerly or South-Westerly over nearly the whole of our Islands and the northern parts of the Continent, and strong to a gale in force in the west of Norway. Light from the Eastward or North-Eastward over the English Channel, France, and the Spanish Peninsula. Variable in Germany, light from the Westward in Austria, and Northerly over Greece and southern Italy, with a gale at Athens. Subsequently increasing to a gale from the Westward in the Shetlands; no important change occurring elsewhere.

Barometer highest, 30.8 ins. at Hermanstadt; 30.4 ins. and upwards in an anticyclone covering all the more central parts of the Continent, and extending westwards over the southern parts of England and Ireland. Lowest, 29.2 ins. and less in a large and deep cyclonic system lying over the extreme northern parts of Russia and Scandinavia; gradients steep over northern Europe generally. New cyclonic disturbance appearing later off the northern parts of the Norwegian coasts, and barometer falling briskly over the whole of Scandinavia.

Thursday, 25th December.

Temperature and Weather.

8 a.m.

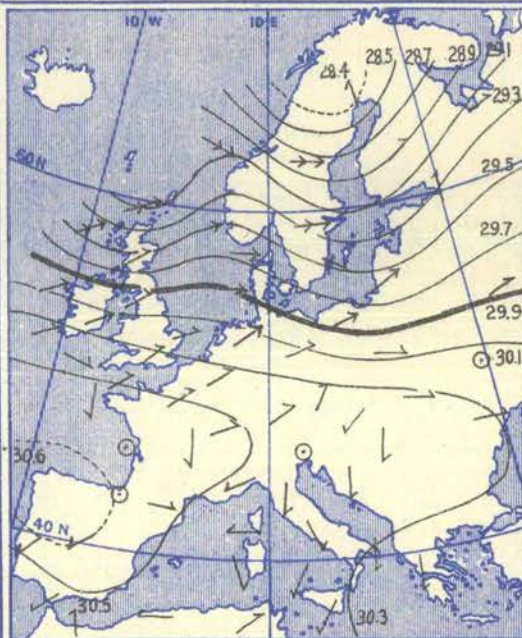


Weather in morning fine and bright in various parts of southern Europe and the Mediterranean, cloudy or dull over the central countries and most of the United Kingdom, very unsettled in all the northern regions, with rain in Scotland, and rain or snow over Finland and at St. Petersburg. Snow also reported to be falling at Athens. Rain falling later at all our own western and northern stations—as much as 0.8 in. at Stornoway—and considerable amounts of snow or rain over the northern half of Europe generally.

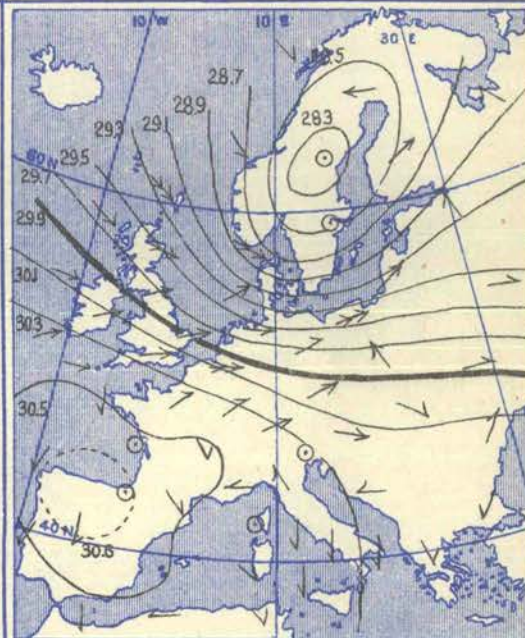
Temperature risen in most regions, but fallen over Finland and Italy. Readings at 8 a.m. highest, 54° at Barcelona, 53° at Aberdeen, 50° at Blacksod Point and Biarritz. Lowest, 0° (zero) at Nicolaieff, 7° at Kharkov, 15° at Buda-Pesth, 20° at Archangel, Moscow, Munich, and Florence, 28° at Athens, 30° at Rome, and 39° at Palermo. Maxima during day above 50° over the United Kingdom generally, and at most western and southern French stations, 59° at Barcelona and Palma, and 61° on the coast of Algeria. Not rising above 36° at Athens, and only touching 45° at Brindisi.

Barometer and Wind.

8 a.m.



6 p.m.



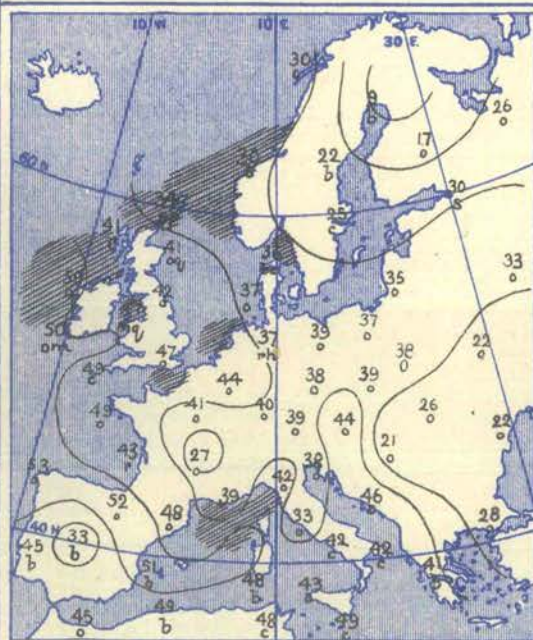
Wind Westerly or South-Westerly over our Islands and the northern and central parts of the Continent generally, and blowing a gale on our own extreme north and north-west coasts, as well as at many of the Scandinavian stations. Calm or variable in the west and south of France; light from the Northward or North-Eastward over Austria, Italy, and the Spanish Peninsula. Subsequently increasing to a gale from the Westward or North-Westward on all our northern coasts, and from the South-Westward over the Baltic; gale severe in the north of Scotland.

Barometer highest, 30.6 ins. and upwards over the Bay of Biscay and the northern and central parts of Spain. Lowest, 28.4 ins. and less in a cyclonic system over the north of Scandinavia; 29.1 ins. and less in a deep secondary disturbance lying to the northward of the Shetlands. Gradients very steep over Scandinavia and the northern parts of the North Sea. Secondary disturbance subsequently travelling eastwards across Scandinavia and increasing in depth; gradients becoming steep over the whole of northern Europe and the North Sea.

Friday, 26th December.

Temperature and Weather.

8 a.m.

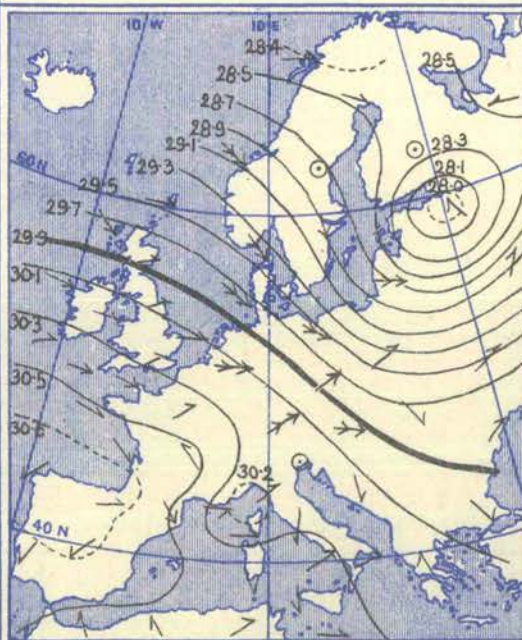


Weather in morning fine in many parts of the Mediterranean and southern Europe, and also in Sweden; cloudy or dull in most other regions, with hail, snow, or rain showers at our own most northern stations, rain in the neighbourhood of Bordeaux and Limoges, and snow at Christiansund and over the Gulf of Finland. Rain experienced later in the north and extreme west of our Islands, and heavier amounts over Denmark, Germany, and in some parts of France. Snow in various parts of northern Europe.

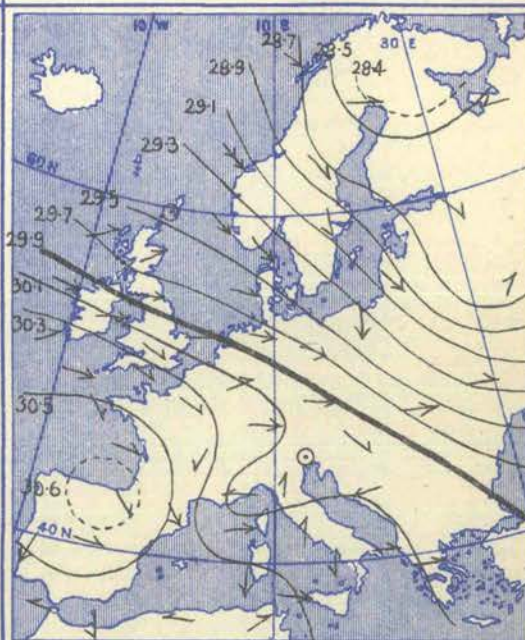
Temperature fallen fast in Scandinavia and the northern half of Great Britain, risen decidedly over France and Germany. Readings at 8 a.m. highest, 53° at Leghorn and Corunna, 52° at Biarritz, and 51° at Pembroke. Lowest, 9° at Haparanda, 17° at Kuopio, 21° at Buda-Pesth, 22° at Little Russia and at Odessa, 25° at Stockholm, 27° at Lyons, 33° at Rome and Madrid, 34° at Annale and in the Shetlands, and 37° at Athens. Remaining much below freezing point in most northern countries all day, but exceeding 50° at most of our own stations, 57° at Malta, 61° at San Fernando, and 63° at Tunis.

Barometer and Wind.

8 a.m.



6 p.m.



Wind in morning strong or fresh and mainly from the Westward over our Islands, strong to a gale from the North-Westward to the eastward of the North Sea and over western Germany, strong to a gale from South-West or West over central Europe and east Prussia. Southerly in central Russia, Easterly at Archangel, and North-Easterly at Helsingfors. A separate cyclonic circulation of fresh or strong winds prevailing around the Gulf of Genoa. No great or decided change during day.

Barometer risen over the north and north-west of our Islands, fallen rapidly over Russia. Readings at 8 a.m. ranging from 30.6 ins. and upwards in an anticyclone over the north of Spain and the adjacent part of the ocean, to 30.2 ins. in a small depression over the Gulf of Genoa, about 28.4 ins. in another system over Lapland, and to 27.96 ins. in the centre of a very large and deep disturbance near St. Petersburg. Two last-mentioned systems moving away eastwards later, and barometer rising rapidly over the Gulf of Finland. Southern depression becoming less well-defined.

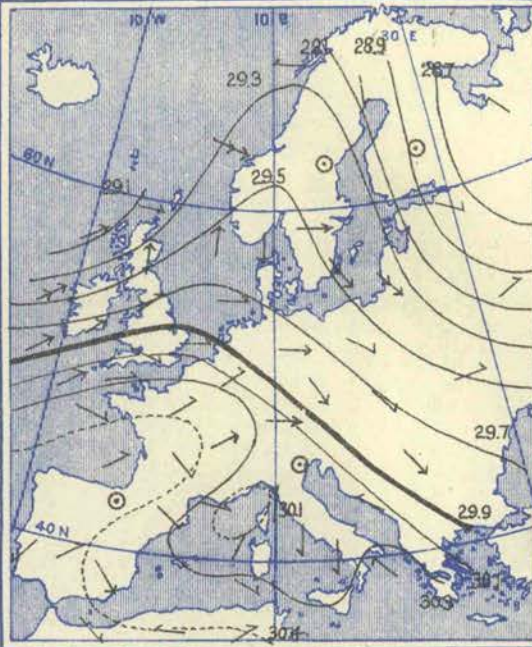
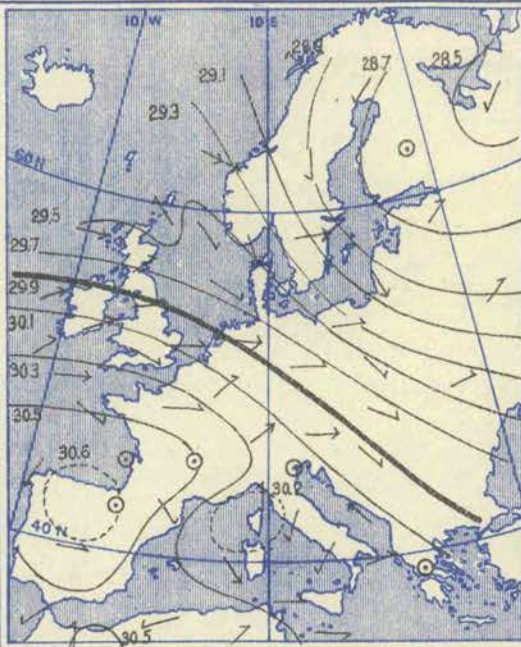
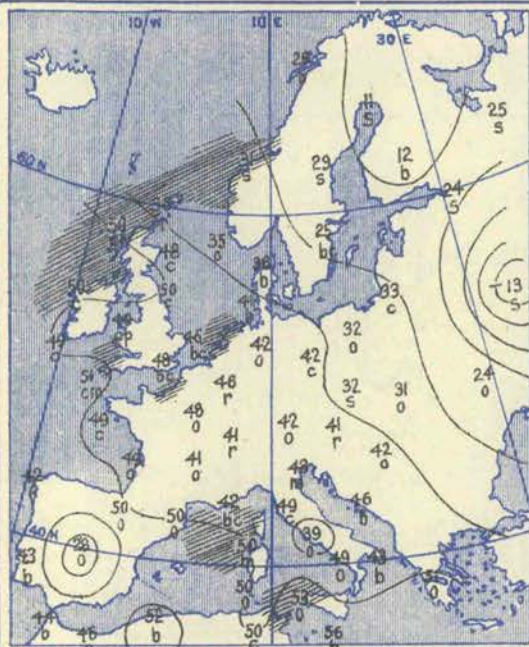
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Temperature changed irregularly—fallen 46° at Moscow, risen 21° at Buda-Pesth. Readings at S. a. v. ranging from 56° at Malta, 51° at Scilly and Nairn, and 59° at Biarritz, to 44° at San Fernando, 36° at Copenhagen, 11° at Haparanda, and to -13° at Moscow. As low as 23° at Madrid, 32° at Pesaro, and 34° at Annale. Rising during day to 56° or above at most of our own stations, 57° on the south coast of France, 61° at Palma and Palermo, and to 63° on the Algerian coast. Only touching 48° at Pesaro, and 45° at Turin.

Barometer at 8 a.m. highest, 30.6 ins. and upwards over the north of Spain. Lowest about 28.4 ins. in a disturbance near Archangel. Below 30.2 ins. in another system over the Riviera and the Gulf of Genoa. Anticyclone giving way somewhat during day, and a new depression approaching our north-west coasts. Northern disturbance moving away eastwards, and that in the south remaining stationary.

GENERAL NOTES.

At the commencement of the week an anticyclone extended from the Atlantic over the south of Ireland, the Bay of Biscay, and the north of Spain, while an ill-defined area of low pressure lay over Sardinia and Corsica, and another stretched from the north of the Gulf of Bothnia southwards to Hungary, and eastwards to southern Russia. During the next day or two the anticyclone travelled east-north-eastwards, and then south-eastwards, until it extended from the south of Ireland to Little Russia, its centre, where the barometer had risen to above 30.7 ins., being over Austria-Hungary. In the meantime, the previously existing depressions had moved away eastwards, but others were already observed in the far north. During the latter half of the period, the chief cyclonic system was a very large and unusually deep disturbance, which appeared over the north of Scandinavia and Lapland on the 25th (with a deep secondary near the Shetlands), and whose centre at 8 a.m. on the 26th lay near St. Petersburg, where the mercury had sunk to the level of 27.96 ins. This system subsequently moved eastwards over

northern Russia, and became much less deep. On the advent of this depression the anticyclone gave way on its eastern side and receded westwards, so that during the remainder of the week the highest pressures were found over the Spanish Peninsula and the south-west of France. During the passage of this low-pressure system the wind, which, excepting over Scandinavia and the Mediterranean, had been light or moderate, increased very suddenly, and blew with severe westerly to North-westerly gales over the more northern districts of our Islands and the northern half of Europe generally. Temperature was high for the season over the United Kingdom, but was subject to great fluctuations on the Continent. The rainfall was at first confined to our own north and north-west coasts and some parts of southern Europe, while snow or rain fell in Norway and Sweden. Later on rain became more general in all the more southern countries, and snow was experienced in nearly all the northern regions of the Continent.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 308.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percent- age of Possible Duration	Difference from the Mean for the Week.
DEERNESSE	0·3	- 5·4	1	- 13	WORKSOP	2·3	- 4·7	5	- 9	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	3·1	- 3·7	7	- 9	THURCASTON	4·1	- 3·2	8	- 6	SOUTHPORT	4·2	—	8	—
EDINBURGH	0·0	- 5·5	0	- 12	MARGATE	13·5	+ 3·2	25	+ 6	RHYL	—	—	—	—
MORPETH	13·3	—	27	—	BROADSTAIRS	11·2	—	21	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	4·0	—	8	—	EASTBOURNE	6·7	- 5·6	12	- 10	ABERDOVEY	5·2†	—	10†	—
YORK	0·0	- 5·8	0	- 12	BRIGHTON	2·5	- 8·8	5	- 16	TENBY	0·8	- 9·5	2	- 18
CROMER	—	—	—	—	WORTHING	7·0	—	13	—	NEWQUAY	0·8	- 10·5	2	- 19
LOWESTOFT	5·2	—	11	—	BOGNOR	7·4†	—	14†	—	TORQUAY	4·4	- 7·7	8	- 14
DUNMOW	2·0	—	4	—	WATERGATE	2·6	—	5	—	GUERNSEY	10·1†	- 0·4	18†	- 1
HOLLESLEY BAY	6·6	—	13	—	WESTBOURNE	8·6†	- 2·9	16†	- 5					
SHEFFIELD	8·6	—	17	—	VENTNOR HOSPITAL	8·0	- 2·3	15	- 5					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)						Rainfall.			Bright Sunshine.						
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
Week ending Dec. 13th, 1902.	Dunmow.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
" " " 27th, "	Cromer.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
" " " " "	Rhyl.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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Fourth Series.

WEEK ENDING SATURDAY, JANUARY 3RD, 1903.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to the volume of the *Weekly Weather Report* for 1901, page IV.

DISTRICTS. (See p. 314.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From December 29th, 1901.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	21	40.9	32.4	36.8	1 below	Day-deg. 0	Day-deg. - 7	Day-deg. 36	Day-deg. + 3	Day-deg. 1899	Day-deg. - 138	Day-deg. 830	Day-deg. - 10
	1. SCOTLAND, EAST	47	14	39.7	30.6	35.3	2 below	0	- 7	47	+ 8	2066	- 325	978	+ 31
	2. ENGLAND, N.E.	49	29	42.0	33.8	38.1	0 (average)	0	- 9	27	- 7	2498	- 130	647	- 105
	3. ENGLAND, EAST	51	24	44.3	33.9	39.3	1 above	6	- 3	31	- 7	2921	- 114	693	- 137
	4. MIDLAND COUNTIES	54	26	43.0	33.4	38.4	1 above	3	- 7	32	- 7	2772	- 200	718	- 145
	5. ENGLAND, SOUTH	53	24	45.8	36.2	41.2	2 above	11	- 3	24	- 5	3122	- 246	504	- 99
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	25	42.9	34.5	38.9	1 below	3	- 8	28	+ 2	2444	- 132	603	- 28
	7. ENGLAND, N.W.	50	24	43.9	35.1	39.7	0 (average)	5	- 6	27	0	2682	- 151	557	- 40
	8. ENGLAND, S.W.	53	26	46.6	36.5	41.7	1 above	13	- 5	24	+ 4	3096	- 104	439	- 9
	9. IRELAND, NORTH	49	29	42.8	33.7	38.4	2 below	2	- 12	31	+ 7	2561	- 174	437	- 113
	10. IRELAND, SOUTH	55	25	44.6	34.2	39.6	3 below	7	- 14	31	+ 13	3145	- 15	325	- 84
	— CHANNEL ISLANDS	54	36	49.7	41.6	45.8	1 above	28	0	1	- 6	3790	- 28	137	- 18

DISTRICTS. (See p. 314.)		Rainfall.						Bright Sunshine.								
		For the Week.			From December 29th, 1901			For the Week.				From December 29th, 1901.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 23	10ths of in. 10 more	254	+17	Ins. 49.0	- 3.3	2	- 3	4	- 7	1104	- 21	25	- 1
	1. SCOTLAND, EAST	5	12	5 more	216	+16	27.3	- 5.0	8	- 1	16	- 1	1133	- 174	25	- 4
	2. ENGLAND, N.E.	6	9	4 more	185	- 1	22.3	- 3.8	10	+ 1	20	+ 2	1219	- 70	23	- 2
	3. ENGLAND, EAST	5	4	1 less	179	- 9	22.3	- 3.4	15	+ 3	28	+ 6	1573	- 79	33	- 2
	4. MIDLAND COUNTIES	5	10	4 more	181	+ 2	25.1	- 3.4	14	+ 5	26	+ 9	1295	- 55	31	- 1
	5. ENGLAND, SOUTH	5	8	2 more	179	+ 4	25.9	- 3.2	14	+ 3	26	+ 5	1583	- 122	34	- 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	21	8 more	229	+19	53.4	+ 0.8	9	+ 2	19	+ 4	1234	- 113	28	- 3
	7. ENGLAND, N.W.	6	10	3 more	213	+16	29.2	- 6.9	12	+ 3	24	+ 5	1455	+ 94	33	+ 2
	8. ENGLAND, S.W.	6	17	7 more	198	- 5	34.2	- 7.4	16	+ 5	29	+ 9	1545	- 117	35	- 3
	9. IRELAND, NORTH	6	16	8 more	250	+18	37.2	0.0	9	- 1	17	- 1	1243	- 35	28	- 1
	10. IRELAND, SOUTH	6	13	3 more	212	0	37.2	- 5.0	9	- 3	17	- 5	1402	- 67	31	- 2
	— CHANNEL ISLANDS	7	17	8 more	215	+ 9	29.5	- 4.9	14	- 3	25	- 5	1746	- 184	39	- 4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for England N.E. and E., the Midland Counties, England S., S.W. and N.W., and the Channel Islands are likely to appear defective.

General Remarks.

Weather during this period was of a very unsettled type generally. During the earlier half of the time rain was of very frequent occurrence in the south, and rain, hail, or snow in the more northern districts, while later on, when the air became milder, the rain extended to all districts. Thunderstorms were experienced at some Scotch stations on Sunday (28th December) and on Saturday (3rd January), sharp thunderstorms, accompanied by heavy hail, occurred in many parts of England and the north of Ireland.

Temperature did not differ greatly from the mean, but was a little below it in Ireland and Scotland, and a trifle above it in most English districts. The highest of the maxima were recorded on January 1st in Ireland, on the 2nd over England, and on irregular dates in Scotland. They ranged from 55° in Ireland S., 54° in the Midland Counties and the Channel Islands, and 53° in England S. and S.W., to 47° in Scotland E. The lowest of the minima were registered, as a general rule, during the middle or latter part of the week. In Scotland E. temperature fell to 14°, and in Scotland N. to 21°, but elsewhere the lowest readings varied from 24° in England S., E., and N.W., to 29° in Ireland N. and England N.E., and to 36° in the Channel Islands.

Rainfall was more than the mean in all districts excepting England E. In nearly all the western and northern parts of the Kingdom the excess was large.

Bright Sunshine exceeded the mean amount in all the English districts, and also in Scotland W.; elsewhere it was deficient. The percentage of the possible duration ranged from 29 in England S.W., and 28 in England E., to 19 in Scotland W., 17 in Ireland and to 4 in Scotland N.

Barometer and Wind.—At the commencement of the week the centre of a large and deep disturbance had appeared off our northern coasts, and strong westerly winds to strong gales were reported throughout our Islands. This system soon began to move slowly southwards and south-eastwards, and to gradually decrease in depth, but it had not entirely passed from our area until Thursday, when it had reached north Germany. The northerly and north-westerly winds prevailing over the United Kingdom during its progress down the North Sea were at first strong to a gale on our northern and north-western coasts, but subsequently fell to a moderate or light breeze. On the approach of other cyclonic systems to our north-western districts from the Atlantic on Thursday, however, the wind backed to the South-Westward and Southward, and again blew a strong breeze or slight gale on all our western and north-western coasts, which continued till the end of the period.

DISTRICTS.	NAMES OF STATIONS.	Temperature.								Rainfall.			Bright Sunshine.			
		In Degrees Fahrenheit.								Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).								
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
											Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	43	32	41.0	34.4	37.8	- 1.6	0	29	7	2.38	+ 1.45	*	*	*	*
	Stornoway	45	31	42.0	34.0	38.2	- 0.9	0	27	7	1.86	+ 0.68	5.1	- 0.9	12	- 2
	Wick	42	26	41.1	31.9	36.7	- 1.4	0	37	6	1.41	+ 0.80	*	*	*	*
	Laing	41	21	37.2	28.7	33.1	- 1.9	0	62	5	1.18	+ 0.31	*	*	*	*
	Glencarron	43	26	40.4	30.9	35.8	- 1.3	0	43	7	3.25	+ 0.99	*	*	*	*
	Fort Augustus	48	28	41.5	32.3	37.1	- 1.1	0	34	6	2.84	+ 1.70	0.5	- 2.2	1	- 5
	Fort William	46	31	43.3	34.3	39.0	- 0.2	4	29	7	3.19	+ 1.02	0.3	- 3.7	1	- 8
1. SCOTLAND E.	Nairn	42	23	39.3	30.6	35.1	- 2.5	0	48	6	1.11	+ 0.64	*	*	*	*
	Aberdeen	42	27	40.1	32.1	36.3	- 1.5	0	40	6	1.34	+ 0.72	7.2	- 3.0	16	- 7
	Braemar	45	14	37.4	26.8	32.3	- 2.3	0	68	5	1.12	+ 0.41	*	*	*	*
	Ochertyre	40	24	39.4	31.0	35.4	- 1.5	0	46	5	1.85	+ 0.81	*	*	*	*
	Leith	44	26	41.6	32.0	37.0	- 2.3	0	35	4	0.47	+ 0.06	*	*	*	*
	Marchmont	47	25	40.3	30.9	35.8	- 0.8	0	43	6	1.20	+ 0.56	9.0	+ 0.8	19	+ 2
2. ENGLAND, N.E.	Alnwick Castle	45	29	40.7	33.4	37.2	- 0.9	0	34	7	1.39	+ 0.80	*	*	*	*
	Durham	49	29	41.9	32.2	37.2	- 0.3	0	34	6	0.77	+ 0.27	12.3	+ 2.3	25	+ 5
	Shields	46	30	42.3	34.7	38.7	- 0.1	1	27	5	1.07	+ 0.62	*	*	*	*
	Scarborough	49	30	42.9	32.9	38.1	- 0.6	3	34	7	0.96	+ 0.43	9.9	—	20	—
	Spurn Head	46	33	42.4	35.7	39.2	+ 0.5	1	23	4	0.52	+ 0.14	*	*	*	*
	Fulbeck (Lincolnshire)	49	29	41.6	34.1	38.0	+ 1.2	0	28	5	0.57	+ 0.16	11.0	—	21	—
3. ENGLAND, E.	Hillington	49	24	44.6	32.4	38.7	+ 1.5	7	37	6	0.39	- 0.12	10.8	+ 1.0	21	+ 2
	Yarmouth	47	29	43.9	34.7	39.5	+ 1.6	5	28	5	0.23	- 0.27	*	*	*	*
	Geldeston	50	27	44.3	34.1	39.4	+ 1.0	6	31	5	0.31	- 0.12	15.2	+ 3.9	29	+ 8
	Cambridge	51	28	45.5	32.9	39.5	+ 1.7	10	36	5	0.34	- 0.03	12.0	+ 1.9	23	+ 4
	Felixstowe	48	30	43.3	35.4	39.5	+ 0.9	4	25	4	0.45	—	18.9†	—	36†	—
	Rothamsted	51	28	44.3	34.1	39.4	+ 1.8	6	31	5	0.64	+ 0.09	15.0	+ 5.0	28	+ 9
4. MIDLAND COUNTIES	Harrogate	45	28	41.2	32.2	36.9	- 0.3	0	36	6	0.75	+ 0.13	11.9	—	23	—
	Bawtry (Hesley Hall)	47	27	42.7	32.6	37.9	+ 0.1	2	35	4	0.46	+ 0.02	*	*	*	*
	Loughborough	50	28	43.0	34.6	39.0	+ 1.0	3	28	5	0.99	+ 0.49	*	*	*	*
	Colly Weston (Stamford)	49	28	42.7	33.7	38.4	+ 1.2	2	31	4	0.34	- 0.12	*	*	*	*
	Cheddle	48	28	41.3	31.8	36.7	- 0.5	0	37	6	1.11	+ 0.45	*	*	*	*
	Birmingham (Mid. Inst. Obs.)	49	32	43.1	33.7	38.6	+ 0.4	3	31	5	1.08	+ 0.58	11.4	—	22	—
	Churchstoke	50	28	42.9	32.7	38.0	- 0.3	3	35	5	1.56	+ 0.89	16.0	+ 6.3	30	+ 12
	Hereford	51	28	44.7	34.7	39.9	+ 1.2	8	29	6	0.92	+ 0.36	*	*	*	*
	Cirencester	54	26	44.4	32.1	38.5	+ 0.7	7	38	6	1.31	+ 0.67	12.0	+ 2.0	22	+ 4
	Oxford	52	31	44.4	36.1	40.4	+ 1.7	7	23	5	1.06	+ 0.60	15.1	+ 5.1	28	+ 10
5. ENGLAND, S.	London	52	29	45.7	35.3	40.7	+ 1.1	19	27	5	0.48	+ 0.02	10.7‡	+ 5.5‡	20‡	+ 10‡
	Swarraton (Alresford)	51	24	44.4	33.5	39.2	+ 1.1	7	33	5	0.76	+ 0.07	*	*	*	*
	Dungeness	50	29	46.4	37.0	41.9	+ 1.8	12	22	6	0.94	+ 0.50	13.0	—	24	—
	Hastings (St. Leonards)	51	32	45.9	36.9	41.6	+ 1.5	11	22	5	1.12	+ 0.49	14.7	+ 1.4	27	+ 3
	Southampton	53	28	46.7	35.8	41.5	+ 1.3	13	27	4	0.60	- 0.10	16.5	+ 5.2	30	+ 10
	Portland Bill	51	37	47.3	38.9	43.3	+ 1.3	22	9	6	0.67	—	*	*	*	*
	Shaftesbury	48	32	44.3	36.0	40.3	+ 2.7	6	24	6	0.79	+ 0.09	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	51	29	44.1	34.1	39.3	- 1.2	6	31	6	4.38	+ 2.38	*	*	*	*
	Glasgow	48	29	42.2	33.9	38.2	- 0.4	1	30	5	1.43	+ 0.51	5.8	+ 1.2	12	+ 3
	Cally	45	25	40.9	33.6	37.4	- 1.2	0	32	4	1.12	- 0.01	*	*	*	*
	Douglas (Isle of Man)	51	29	44.5	36.3	40.6	- 0.7	7	23	7	1.41	+ 0.38	13.0	+ 2.8	26	+ 6
7. ENGLAND N.W.	Newton Reigny	45	24	40.1	31.4	35.9	- 1.0	0	43	6	1.47	—	4.7	—	9	—
	Stonyhurst	48	29	41.5	34.0	37.9	0.0	0	29	5	1.16	+ 0.15	5.9	- 1.0	12	- 2
	Blackpool	48	30	44.8	36.0	40.6	+ 1.5	8	24	7	1.06	+ 0.38	13.8	+ 6.8	27	+ 13
	Manchester (Prestwich)	49	30	43.3	33.2	38.5	0.0	4	33	6	0.69	- 0.10	4.5	—	9	—
	Liverpool Obsy. (Bidston)	47	33	44.0	36.0	40.2	+ 0.4	6	24	5	0.51	- 0.04	19.5	—	38	—
	Chester	49	34	46.4	37.0	41.9	+ 1.5	12	22	7	0.70	—	*	*	*	*
	Llandudno	50	34	46.5	36.8	41.8	0.0	13	22	7	1.15	+ 0.49	11.6	+ 2.4	22	+ 5
8. ENGLAND, S.W.	Holyhead	47	35	44.4	36.7	40.7	- 1.9	7	21	6	1.34	+ 0.55	*	*	*	*
	Llandovery	49	27	44.7	32.0	38.6	0.0	8	39	6	1.38	+ 0.18	*	*	*	*
	Pembroke	51	37	48.0	40.6	44.5	+ 1.1	23	4	6	0.95	+ 0.07	9.7	- 1.5	18	- 3
	Clifton	52	32	45.0	36.5	40.9	+ 1.1	8	22	6	1.91	+ 1.15	*	*	*	*
	Bath	53	28	47.7	35.3	41.8	+ 2.0	16	30	6	1.56	+ 0.89	11.8	—	22	—
	Arlington (N. Devon)	50	29	45.1	34.3	39.9	- 0.3	9	31	7	2.02	+ 1.42	*	*	*	*
	Cullompton	52	26	46.1	33.7	40.2	+ 0.4	11	34	6	2.09	+ 1.27	13.6	+ 4.2	25	+ 8
9 IRELAND, N.	Falmouth	52	36	47.3	39.7	43.7	- 0.4	22	6	6	1.63	+ 0.43	22.9	+ 10.1	41	+ 18
	Plymouth	53	31	48.6	39.5	44.2	+ 1.6	26	7	7	1.44	+ 0.54	16.3	+ 4.9	29	+ 9
	Malin Head	43	34	42.3	36.3	39.4	- 2.3	1	21	7	1.26	+ 0.62	*	*	*	*
	Edenfel (Omagh)	44	29	40.9	31.6	36.4	- 1.5	0	39	6	1.86	+ 1.04	*	*	*	*
	Blacksod Point	49	33	45.3	36.4	41.0	- 2.2	9	23	7	1.06	+ 0.72	*	*	*	*
	Markree Castle	45	29	43.6	32.4	38.2	- 1.4	4	36	7	2.24	+ 1.34	7.8	- 0.9	15	- 2
	Armagh	46	30	41.8	32.2	37.2	- 1.8	0	34	5	1.35	+ 0.72	9.1	- 0.4	18	- 1
10. IRELAND, S.	Donaghadee	45	30	42.9	33.1	38.2	- 2.7	3	33	4	0.82	+ 0.17	*	*	*	*
	Dublin	51	31	44.4	34.9	39.8	- 1.9	7	28	5	0.38	- 0.14	14.7	+ 2.0	28	+ 4
	Parsonstown	47	28	42.3	31.3	37.0	- 2.3	1	39	6	1.30	+ 0.62	7.2	- 3.8	14	- 7
	Kilkenny	49	25	42.3	31.3	37.0	- 3.8	1	39	6	0.97	+ 0.22	*	*	*	*
	Waterford	49	27	43.0	32.3	37.9	- 4.2	3	36	4	1.15	+ 0.14	*	*	*	*
	Roche's Poin	50	32	45.3	35.7	40.7	- 3.1	9	26	6	1.24	+ 0.05	*	*	*	*
	Valencia	50	34	46.6	37.4	42.2	- 2.9	21	13	7	1.74	+ 0.32	4.5	- 6.7	8	- 13
CHANNEL ISLANDS	Killarney	55	39	48.2	35.9	42.3	- 1.1	28	17	7	2.41	+ 0.87	*	*	*	*
	Foynes	48	29	44.4	35.0	39.9	- 1.9	7	28	6	1.51	+ 0.58	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	38	49.4	41.4	45.6	- 1.0	28	2	7	1.06	+ 0.19	22.4	—	40	—
	Jersey	54	36	50.0	41.7	46.0	+ 2.7	29	1	7	2.25	+ 1.46	14.2	- 0.4	25	- 1

Stations Marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use.

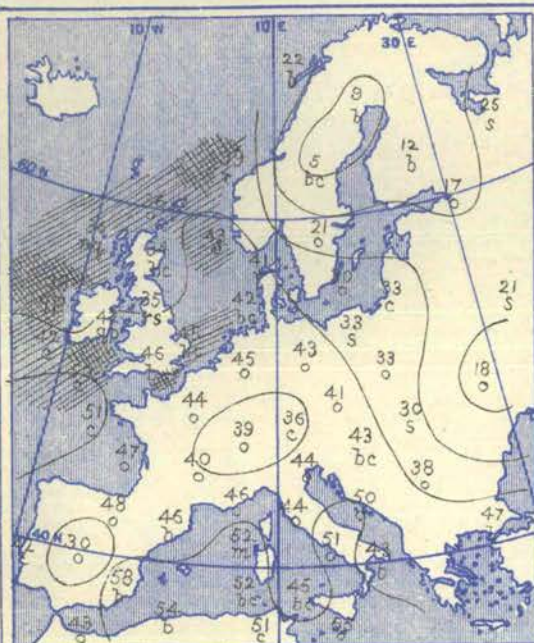
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 28th December.

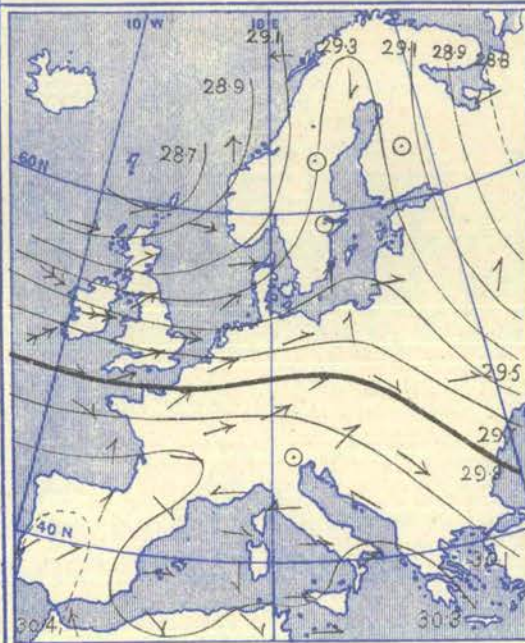
Temperature and Weather.

8 a.m.

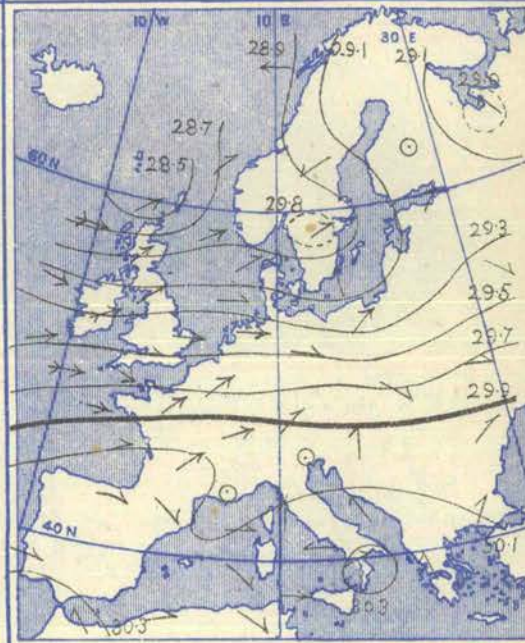


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the east and south of England, and also in Finland and the northern parts of Scandinavia. Cloudy or dull in nearly all other parts of our Islands and the Continent, with snow or sleet showers at several of our own northern stations, and rain or hail showers in the west: rain falling also at Christiansund and the Scaw, and snow at Karlstad and Neu Fahrwasser. Rain, hail, or snow falling later over nearly the whole of western, northern, and central Europe; lightning seen at Blacksod Point and also at Skudesnaes.

Temperature fallen rapidly in Ireland and Scotland, and to a less extent in most other parts of western Europe. Morning readings highest, 58° at Alicante, 55° at Malta, and 54° at Palma and Algiers; slightly above 50° in the north-west of France. Lowest, 5° at Hemsund, 9° at Haparanda, 12° at Kuopio, and 13° at Uleaborg; below the freezing point over northern Europe generally, and very little above it at several of our own northern stations. Daily maxima below 45° in all but the extreme southern parts of the United Kingdom; thermometer exceeding 50° in the west of France, and exceeding 55° in many parts of southern Europe.

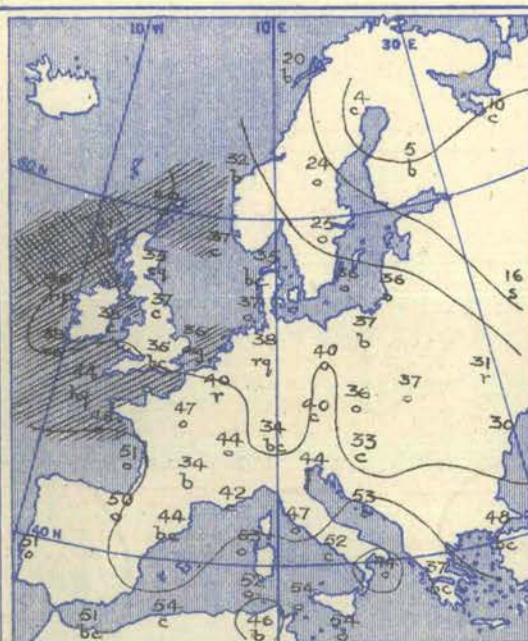
Wind Westerly or South-Westerly over western and central Europe generally; strong in force in many places, with a gale on all our own western coasts; Southerly to Easterly at most of the Scandinavian stations. Light and variable in all the more southern countries. Subsequently increasing to a gale from the Westward on our northern coasts; no decided change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards, over central Spain; 29.2 ins. and upwards in an anticyclone of irregular form covering the greater part of southern Europe. Lowest, 28.87 ins. and less in a large cyclonic system lying to the northward of our Islands; 28.8 ins. and less in another area over northern Russia. Cyclonic disturbance off our northern coasts, subsequently spreading southwards; well-marked secondary system appearing over the south of Sweden, and barometer falling over the whole of western and central Europe.

Monday, 29th December.

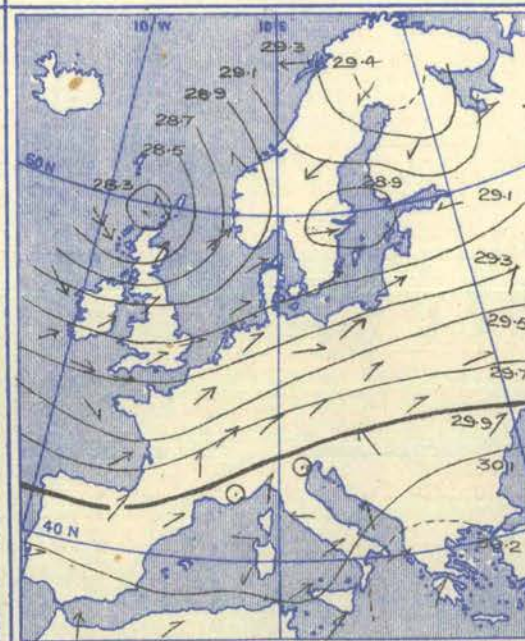
Temperature and Weather.

8 a.m.

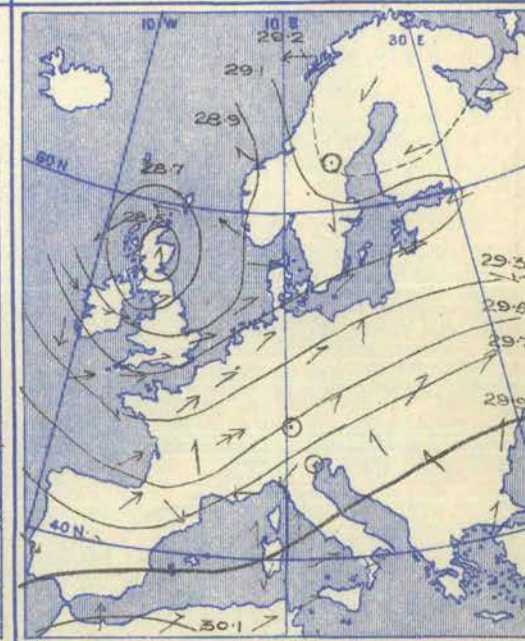


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at several of the English stations and also in Scandinavia and northern Russia. Cloudy or dull in nearly all other parts of Europe, with hail or sleet on several parts of our own western coasts; rain falling in Belgium, the north-east of France, and the extreme south-east of England, as well as at Cuxhaven and Florence. Rain falling during day in all parts of western and central Europe, excepting the eastern and central parts of England—heavily in the west of France; lightning seen at Clacton-on-Sea. Temperature risen in the north of our Islands, and also in Sweden, Russia, and Italy, fallen elsewhere. Morning readings highest, 54° at Palermo, Malta, and Algiers, 53° at Lésina, and 52° at Naples and Cagliari; above 45° at most of the Mediterranean and Spanish coast stations. Lowest, 4° at Uleaborg, 5° at Kuopio, 6° at Haparanda, and 10° at Archangel, considerably below the freezing point over Sweden and Russia generally, and slightly below it over central Ireland. Daily maxima below 45° on all but our own extreme western and southern coasts, and below 40° in some parts of eastern and central England; frost occurring in many parts of the United Kingdom at night.

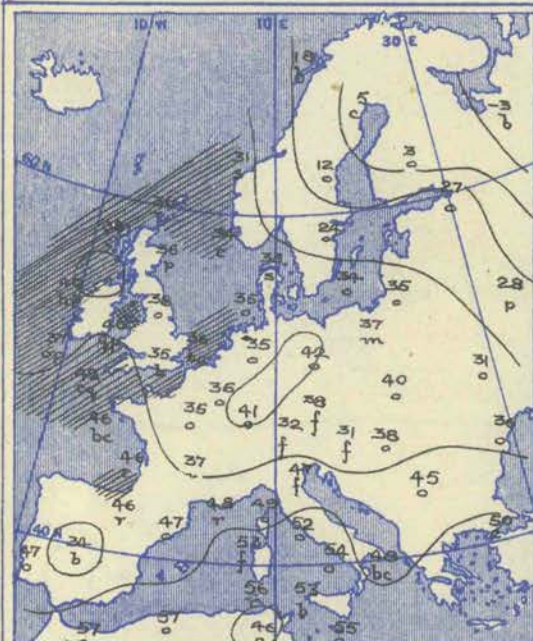
Wind moderate to strong from the South-Westward over western, central, and southern Europe generally, but blowing a gale from the North-Westward in the west of Scotland, and the north of Ireland; Easterly or North-Easterly over Finland and the northern parts of Scandinavia. Subsequently shifting to the Eastward or North-Eastward in the north of Scandinavia; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards, in an anticyclone lying over Greece and eastern parts of the Mediterranean. Lowest 28.3 ins. and less in a large and deep cyclonic system with its centre over the extreme north of Scotland; 28.8 ins. and less in a well-marked secondary disturbance near the mouths of the Gulfs of Finland and Bothnia. Primary depression subsequently advancing in a south-south-easterly direction over Scotland; secondary disturbance partially filling up.

Tuesday, 30th December.

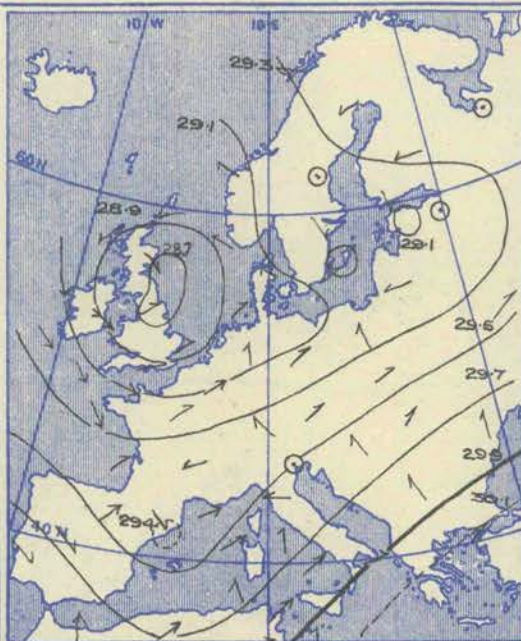
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the southern portion of England, in Brittany, and the extreme north of Europe. Cloudy or dull in nearly all other regions, rainy in the south of France and at Cagliari, rain or snow falling on the north German coast, Helsingfors, and in the Skager Rack, and cold rain, hail, or sleet over our own northern and western districts. Foggy over central Europe. Rain very general later over Italy and France, and rain or sleet over our Islands—as much as 0.5 in. at Shields, 0.7 in. at Rome, and more than 1.2 ins. in the south of France.

Temperature risen over southern and eastern Europe, fallen in most other places. Readings at 8 a.m. highest, 57° at Algiers and Oran, 56° at Cagliari, 55° at Malta, and 50° at Constantinople. Lowest, -8° at Archangel, +3° at Kuopio, 12° at Helsingfors, 18° at Bodö, 22° at Karlstad, 28° at Moscow, 31° at Vienna, 34° at Madrid, 35° at Parsonstown, in London, and at Paris. Remaining below 45° all day in most parts of the United Kingdom, France, Germany, and Austria-Hungary, but rising to 57° at Pesaro and Brindisi, 63° in the west of Algeria, and to 65° at Palermo. Not exceeding 36° at Turin.

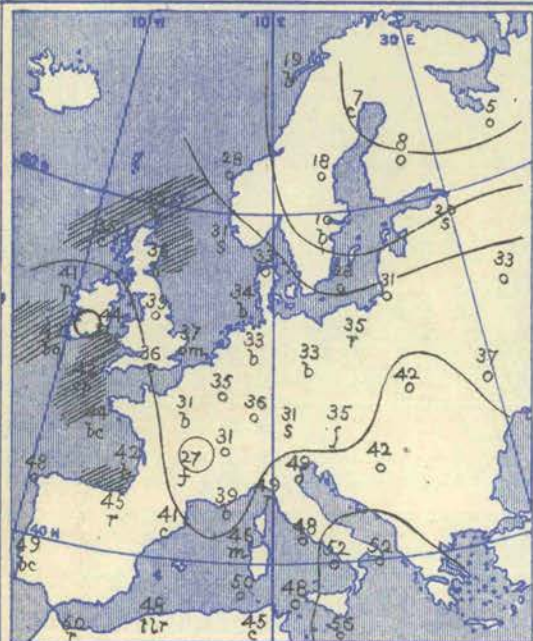
Wind in morning strong to a gale in force over our Islands and their neighbourhood, and showing a complete cyclonic circulation. Smaller cyclonic movements observed over the Baltic, Gulf of Finland, and the south of France. No general change during day, but cyclonic winds increasing decidedly in force and blowing a gale over the Gulf of Genoa, north of Italy, and the western half of the Mediterranean generally.

Barometer fallen as a whole, but risen over the north of Europe and on our north and north-west coasts. Readings at 8 a.m. ranging from 30.0 ins. and upwards over Greece and Asia Minor, and 29.9 ins. in the south of Spain, to 29.4 ins. and less in a small depression near Barcelona, to less than 29.1 ins. in two other small minima lying over Gothland and near Helsingfors, and to below 28.7 ins. in a large and deep disturbance having its centre to the north-eastward of Shields. Last-mentioned system moving slowly south-eastwards later and becoming less deep, but that near Barcelona travelling eastwards and increasing in energy. Northern depressions partially dispersing.

Wednesday, 31st December.

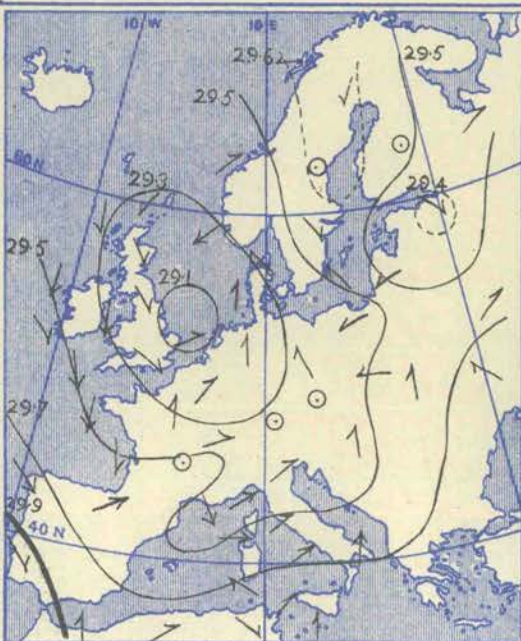
Temperature and Weather.

8 a.m.

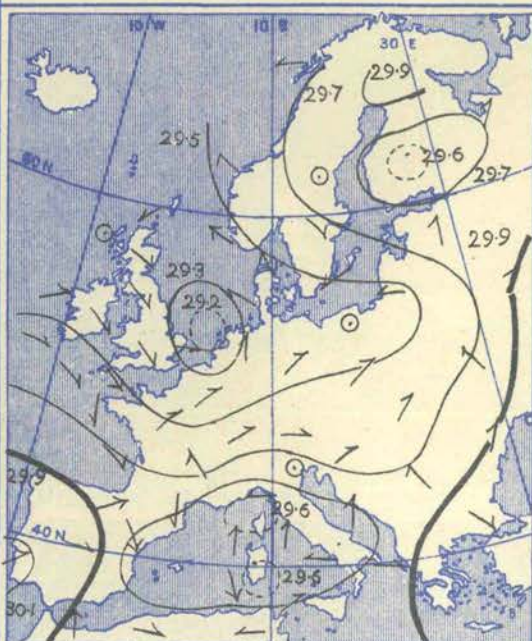


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair at several of our own western and northern stations, and at some of those in north Germany; cloudy or overcast elsewhere, with rain over northern Italy, the south-west of France, and western Algeria, a thunderstorm at Algiers, and snow at St. Petersburg and Munich. Fog prevailing at Breslau and Vienna. Snow falling later over the northern parts of the Continent, slight rain over the north and north-west of our Islands, and heavier amounts over France, Italy, and Algeria—1.3 ins. at Biarritz, and 0.9 in. at Naples.

Temperature fallen in Scotland, the south of Sweden, Germany, France, and on most shores of the Mediterranean, risen elsewhere. Readings at 8 a.m. highest, 56° at Malta, 52° at Brindisi and Naples, and 49° at Leghorn and Trieste. Lowest, 5° at Archangel, 7° at Haparanda, 8° at Kuopio, and much below 32° over Scandinavia and northern Russia generally, 27° at Lyons, 30° at Le Mans, 31° at Paris and Munich, 32° at Nairn, and 34° at Parsonstown. Remaining below 40° in Germany, some parts of Great Britain, and France all day, but rising to 54° at Palma, 57° at Lésina, and to 61° at Brindisi, Malta, and Nemours.

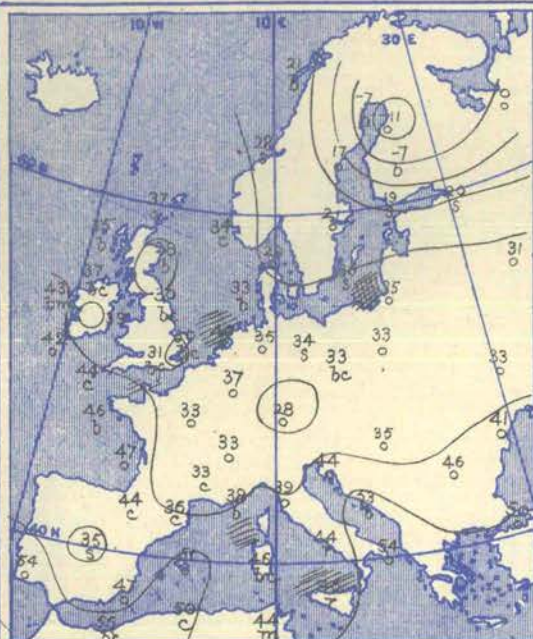
Wind in morning showing three distinct cyclonic circulations—one around the North Sea, another around the Gulf of Genoa and the north of Italy, and a third over the north of Russia. Force of wind light or moderate as a whole, but the Northerly current strong at some of our own western stations, and the South-Westerly current strong over Corsica and the north of Italy. Wind falling light and backing towards West on our western coasts later, and that over the north of Italy shifting to East and falling light.

Barometer risen in most regions, but fallen in Italy and over the Mediterranean. Readings at 8 a.m. highest, 29.9 ins. and above over the south-western portion of the Iberian Peninsula, above 29.6 ins. over the Gulf of Bothnia, and 29.38 ins. at Kiev. Lowest, about 29.0 ins. in a disturbance over the southern parts of the North Sea, less than 29.3 ins. in the neighbourhood of Venice, 29.3 ins. at Breslau, and below 29.4 ins. around St. Petersburg. Cyclonic disturbances decreasing in depth later, and barometer rising except on our extreme western coasts.

Thursday, January 1st.

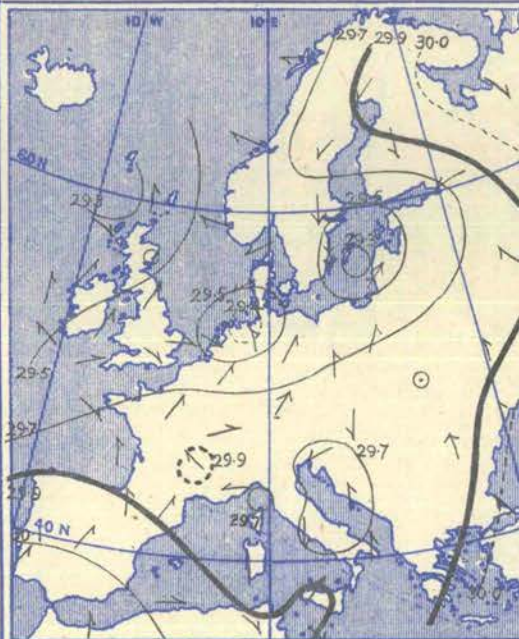
Temperature and Weather.

8 a.m.

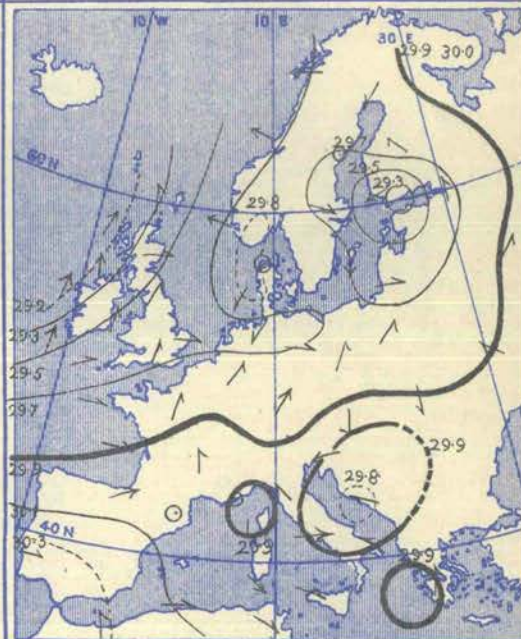


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in several parts of the United Kingdom, the north of France, and the Riviera, but cloudy or dull generally, with rain or snow showers in the north-west of England, rain at The Helder, Malta, and several Italian stations, and snow at Berlin, Christiansund, Wisby, and over the Gulf of Finland. Snow also falling at Madrid. Becoming rainy later in nearly all parts of our Islands and France, and some rain or snow falling over most of the northern regions of the Continent.

Temperature fallen very generally. Readings at 8 a.m. highest, 56° at Oran, 54° at Lisbon and Brindisi. Lowest, -11° at Uleaborg, 0° (zero) at Archangel, +18° at Karlstad, 20° at St. Petersburg, 21° at Bodø, 26° at Limoges, 28° at Munich, 27° at Nairn, 29° at Parsonstown, and 35° at Madrid. Rising later to 50° or 51° on our west and south-west coasts, to a similar value on the west and south coasts of France, to 55° at Lésima, 58° at Athens, Brindisi, and Algiers, and 63° over the west of Algiers. Remaining much below the freezing point in most parts of Russia and Scandinavia, and not rising much above it over central Europe.

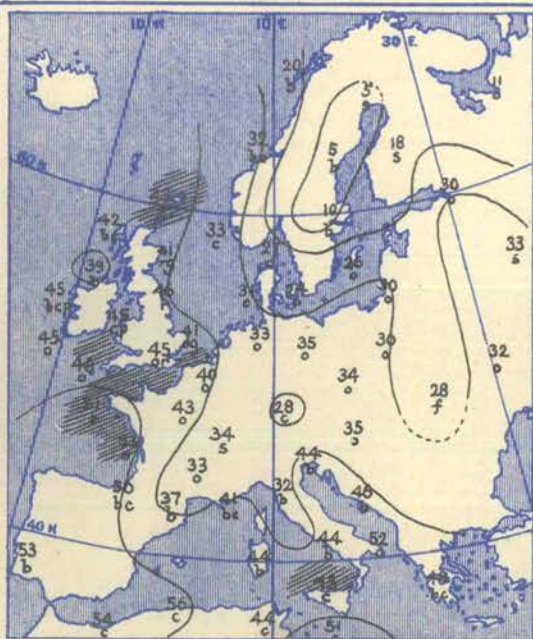
Wind at 8 a.m. showing several cyclonic circulations, the two most marked being around the mouth of the Elbe and the Isle of Gothland. Both the Northerly and South-Westerly winds strong to a gale in the latter region. Force mostly light or moderate elsewhere, but North-Westerly current at The Helder and that from South-West at Palermo blowing strongly. Wind backing towards South over our western districts by evening, and increasing to a strong breeze or slight gale. Not much change elsewhere.

Barometer risen generally, but fallen over the eastern part of the Baltic, and remaining stationary in the west of Ireland. Readings at 8 a.m. highest, 30.1 ins. and upwards, over the south of the Peninsula and the adjacent portion of Africa, and above 30.0 ins. both over southern and northern Russia. Lowest, 29.3 ins. and less, in a disturbance near Wisby, below 29.4 ins. in a centre near Cuxhaven, and in another off the north of Scotland, and below 29.7 ins. in an irregularly shaped system over Italy and its vicinity. Depression near Wisby travelling north-eastwards later, and a new system approaching our western coasts from the Atlantic.

Friday, January 2nd.

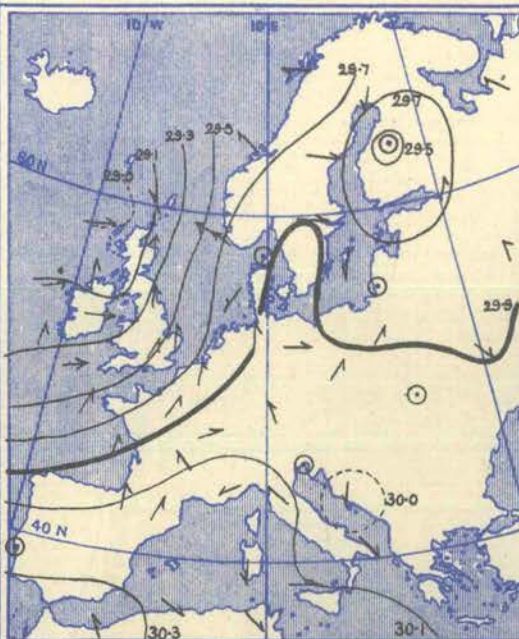
Temperature and Weather.

8 a.m.

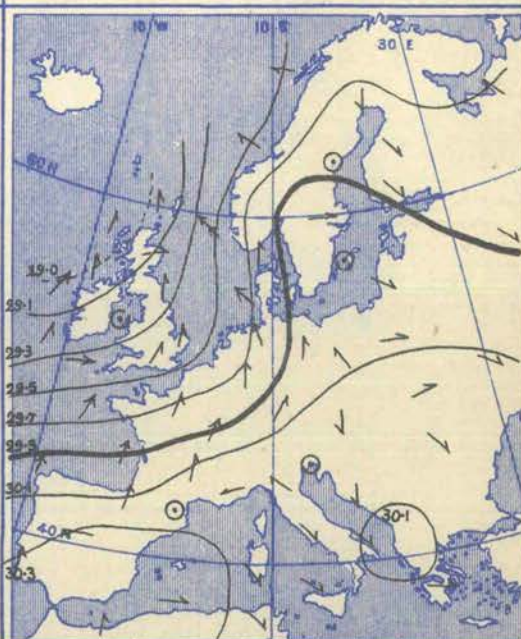


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at many of the Irish stations, but squally and rainy over Great Britain and the north of France. Dull over the northern and central parts of the Continent, with snow over northern and central Russia, and also at Haparanda; fine over southern Europe. Sky clearing later in Scotland, but rain falling in nearly all other parts of western and central Europe—heavily in places. Lightning occurring at night at most of the English and Irish stations, and thunder also at Loughborough and Roche's Point.

Temperature risen over western and central Europe, but fallen elsewhere. Morning readings highest, 56° at Algiers, 54° at Nemours and Oran, and 53° at Bilbao and Lisbon; above 45° on our own southern coasts. Lowest, 5° at Haparanda and Hernösand, 10° at Uleaborg and Stockholm, and 11° at Archangel; below the freezing point over northern Europe generally. Rising during day to 50° or slightly above it at several of our own central and southern stations, and also over the greater part of France; exceeding 55° over southern Europe, and reaching 59° at Bilbao and Brindisi, and 63° at Corunna.

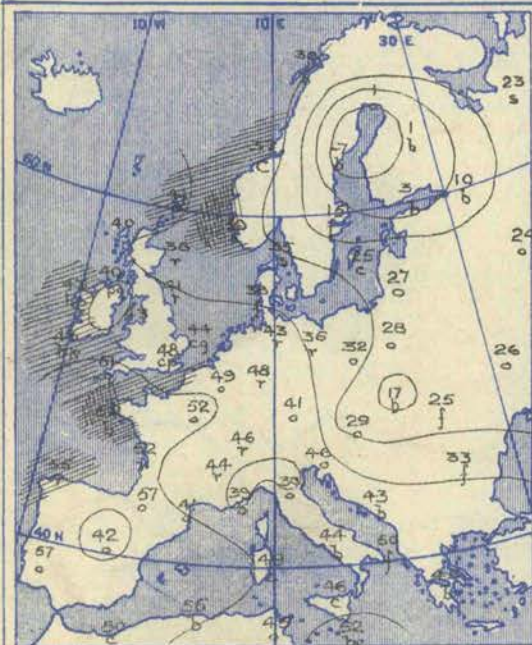
Wind moderate to strong from the Westward over the St. George's and the Bristol Channels, from the South-Westward in France, and from the Southward in most parts of Great Britain; South-Easterly or Easterly in the west of Norway. Northerly or North-Westerly in Sweden and Finland, light from the Southward over the central parts of Russia. Variable over Austria, Italy, and Greece, and also over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30.3 ins. and upwards over Morocco and the south of Spain; 30.1 ins. and upwards in an anticyclone covering the greater part of southern Europe and the Mediterranean. Lowest, 29.0 ins. and less in a cyclonic system with its centre a little to the northward of the Hebrides. Gradients rather steep over the North Sea and the English Channel; 29.5 ins. and less in another disturbance over Finland. Cyclonic system off the Scotch coasts subsequently moving away to the north-westward; disturbance over Finland entirely disappearing.

Saturday, 3rd January.

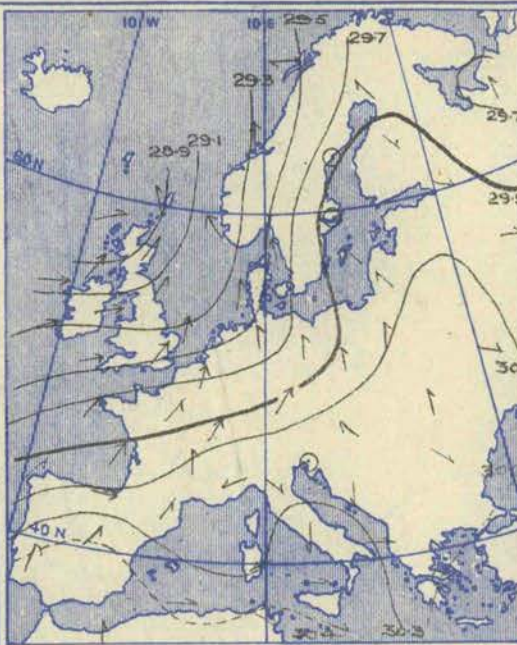
Temperature and Weather.

8 a.m.

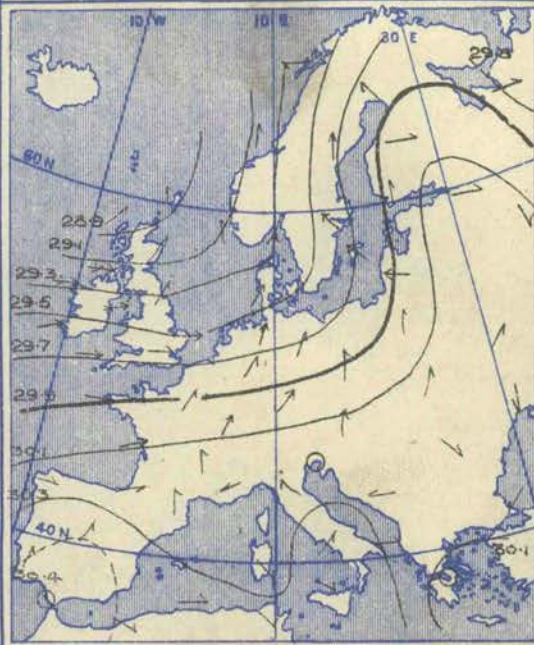


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and unsettled over western and central Europe generally, with rain in several places. Fine at most of the Mediterranean and Adriatic stations, and also in Finland and some parts of Scandinavia. Rain falling during day in all but the most southern parts of Europe, and thunderstorms occurring in the south and south-east of England. Sky clearing in afternoon or evening in many parts of Great Britain, but lightning seen at night on nearly all our western coasts.

Temperature fallen in Ireland and Scotland, and also in Russia and Austria, risen in most other countries. Morning readings highest, 59° at Bilbao, 57° at Lisbon, 56° at Algiers, and 55° at Coranna; above 50° at many of the Mediterranean stations, and also in the Channel Islands and the north and west of France. Lowest, -7° at Hemsö, -1° at Haparanda and Kuopio, and 3° at Uleaborg and Helsingfors; below the freezing point over northern and eastern Europe generally. Rising during day to between 45° and 50° at most of the English and Irish stations, and to 52° at Scilly; exceeding 60° in many parts of southern Europe, and reaching 64° at Alicante, Rome, and Palermo.

Wind moderate to strong from the South-Westward over our Islands, France, and the Netherlands, from the Southward in Denmark, and from the South-Eastward or Eastward in Norway. Calm or variable in Sweden; light from the Westward or North-Westward in Russia, and from the Northward in Italy. Subsequently veering to the Westward on many parts of our western coasts, and increasing to a moderate or fresh gale; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards in Tunis, Morocco, and the central and southern parts of Spain; 30.1 ins. and upwards in an anticyclone covering nearly the whole of southern and eastern Europe. Lowest, 28.3 ins. and less in a well-marked cyclonic system, with its centre lying a little to the northward of the Hebrides; 29.7 ins. and less in a shallower disturbance over northern Russia. Cyclonic area off Scotch coasts subsequently travelling away to the northward; depression over northern Russia moving eastwards.

GENERAL NOTES.

During the earlier half of this week the weather over western Europe was influenced by a large cyclonic disturbance, the centre of which advanced over Scotland from the northward on Monday, and afterwards travelled slowly south-eastwards across the North Sea. The system was originally of great depth (minimum readings below 28.3 inches) and occasioned Westerly gales over the whole of the United Kingdom, with snow in the north, and rain in the south. As the disturbance moved South-Eastwards, however, it gradually filled up, and on the night of Thursday it entirely dispersed over north Germany, the wind in the meantime veering to the North-Westward or Northward in these islands and steadily subsiding. During the progress of the disturbance several secondary depressions were developed over various parts of northern

Europe, and the weather there was consequently almost as unsettled as in the western countries, the sky being usually cloudy, with snow in many places.

In the latter part of the week the weather was affected by a new series of disturbances, the centres of which skirted the north-west of Scotland, and afterwards travelled away in a north-easterly direction. These systems produced South-Westerly (Southernly to Westerly) winds over the entire kingdom, with occasional slight gales on our western and southern coasts, and with general falls of rain. Lightning was seen in many parts of England and Ireland on Friday and Saturday, and in some places (including London) smart thunderstorms were experienced, with heavy showers of rain or hail.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 314.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration.	Difference from the Mean for the Week.
DEERNESSE	0.0	- 5.9	0	- 14	WORKSOP	12.6	+ 5.0	24	+ 10	BOURNEMOUTH	—	—	—	—
STRATHPEFFER SPA	3.6	- 3.6	8	- 8	THURCASTON	12.4	+ 4.4	24	+ 8	SOUTHPORT	13.9	—	27	—
EDINBURGH	6.9	+ 0.7	14	+ 1	MARGATE	13.0	+ 2.6	24	+ 5	RHYL	13.6	—	36	—
MORPETH	12.8	—	26	—	BROADSTAIRS	18.7	—	34	—	COLWYN BAY	—	—	—	—
NEWCASTLE-ON-TYNE	8.3	—	17	—	EASTBOURNE	13.9	+ 1.5	25	+ 3	ABERDOVEY	17.6†	—	33†	—
YORK	5.9	- 0.4	12	- 1	BRIGHTON	6.8	- 4.8	12	- 9	TENBY	15.1	+ 3.4	28	+ 6
CROMER	16.5	—	32	—	WORTHING	16.3	—	30	—	NEWQUAY	14.7	+ 3.2	27	+ 6
LOWESTOFT	12.7	—	24	—	BOGNOR	14.6†	—	27†	—	TORQUAY	23.8	+11.4	43	+ 21
DUNMOW	13.3	—	25	—	WATERGATE	16.2	—	30	—	GUERNSEY	6.1†	- 5.0	11†	- 9
HOLLESLEY BAY	17.2	—	32	—	WESTBOURNE	15.6†	+ 3.6	28†	+ 7					
SHEFFIELD	18.5	—	36	—	VENTNOR HOSPITAL	15.7	+ 4.5	28	+ 8					

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature.					Rainfall.			Bright Sunshine.			
		(In Degrees Fahrenheit.)											
		Highest observed.	Lowest observed.	Averages for the Week.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.							
Week ending Dec. 13th, 1902.	Dunmow.	—	—	—	—	—	—	—	—	5.0	—	9	—
" " " 20th, "	Bognor	—	—	—	—	—	—	—	—	13.3	—	25	—
" " " 27th, "	Cromer	—	—	—	—	—	—	—	—	6.8	—	13	—
" " " " "	Rhyl	—	—	—	—	—	—	—	—	5.6	—	11	—

TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR PERIODS OF FOUR WEEKS OR FIVE WEEKS, AND THE PROGRESSIVE VALUES FROM DECEMBER 29TH, 1901, FOR THE FIRST QUARTER, 1902.

1902. — FOUR WEEKS OR FIVE WEEKS ENDING	Principal Wheat-producing Districts.														Principal Grazing Districts.										CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.				
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.				MEANS FOR THE GRAZING DISTRICTS.			
	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.			For the Period.	From Dec. 29, 1901.		
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
Jan. 25 -	26	26	16	16	11	11	11	11	11	11	10	10	12	12	21	21	17	17	15	15	20	20	15	15	18	18	14	14	15	15
Feb. 22 -	15	41	11	27	12	23	12	23	10	21	10	20	11	23	12	33	11	28	10	25	14	34	11	26	12	30	17	31	12	27
Mar. 29 -	27	68	23	50	18	41	19	42	17	38	15	35	18	41	27	60	25	53	22	47	29	63	23	49	25	55	20	51	22	49
RAINFALL.—AMOUNTS IN INCHES.																														
Jan. 25 -	6.96	6.96	1.86	1.86	1.15	1.15	0.82	0.82	1.36	1.36	1.29	1.29	1.30	1.30	5.15	5.15	2.51	2.51	2.30	2.30	3.10	3.10	2.61	2.51	3.11	3.11	1.70	1.70	2.21	2.21
Feb. 22 -	2.01	8.97	0.72	2.58	0.86	2.01	0.75	1.57	0.79	2.15	1.02	2.31	0.83	2.13	1.98	7.13	1.33	3.84	1.45	3.75	2.03	5.13	2.41	4.92	1.84	4.95	1.90	3.60	1.34	3.55
Mar. 29 -	5.59	14.56	2.12	4.70	1.67	3.68	1.60	3.17	2.40	4.55	2.56	4.87	2.07	4.20	6.21	13.34	2.67	6.51	3.87	7.62	3.53	8.66	4.17	9.02	4.08	9.04	2.88	5.98	3.08	6.63
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
Jan. 25 -	31	31	39	39	77	77	85	85	83	83	86	86	74	74	66	66	68	68	103	103	67	67	101	101	81	81	159	159	78	78
Feb. 22 -	3	34	0	39	0	77	0	85	0	83	0	86	0	74	0	66	0	68	3	106	5	72	26	127	7	88	32	191	4	82
Mar. 29 -	64	98	88	127	116	193	136	221	165	248	153	239	132	206	108	174	126	194	171	277	123	195	179	306	141	229	206	397	137	219
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
Jan. 25 -	103	103	111	111	63	63	65	65	68	68	42	42	70	70	46	46	43	43	37	37	42	42	25	25	39	39	3	3	55	55
Feb. 22 -	303	406	324	435	259	322	252	317	275	343	213	255	265	335	265	311	252	295	193	230	194	236	150	175	211	250	91	94	238	293
Mar. 29 -	105	511	123	558	86	408	96	413	64	407	35	290	81	416	60	371	43	338	28	258	36	272	23	198	38	288	3	97	60	353
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
Jan. 25 -	13	13	30	30	27	27	46	46	27	27	37	37	33	33	23	23	30	30	28	28	22	22	27	27	26	26	26	26	30	30
Feb. 22 -	72	85	68	98	73	100	90	136	68	95	91	128	78	111	62	85	75	105	94	122	60	82	84	111	75	101	87	113	77	107
Mar. 29 -	84	169	92	190	95	195	117	253	98	193	127	255	106	217	86	171	108	213	110	232	86	168	104	217	99	200	143	256	103	210
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
Jan. 25 -	7	7	15	15	13	13	21	21	12	12	16	16	15	15	11	11	14	14	12	12	10	10	12	12	12	12	11	11	14	14
Feb. 22 -	30	19	27	22	29	21	34	28	26	20	34	26	30	23	25	18	29	22	25	25	23	17	32	23	29	21	32	22	30	22
Mar. 29 -	21	20	23	22	24	22	29	29	24	22	32	26	26	25	22	20	27	24	27	26	22	19	26	25	25	23	35	28	26	24

EXPLANATION OF TABLES.

TABLES I. and IA. are in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-1901. The whole of the values for 1878-1902, however, have been corrected by information which may have been received since they were first published.

TABLE II. In this Table the values given do not apply to calendar months but to periods of four weeks or five weeks ending at the dates shown.

The figures given in the columns headed "From Dec. 29/1901" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the Grazing Districts" the values for the "Channel Islands" are not included.

The "Means for the British Islands generally" are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1902.

VOL. XIX. APPENDIX I.]
New Series.

SECOND QUARTER—APRIL TO JUNE.

[Price 4d.]

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE SECOND QUARTER OF THE THIRTY-SEVEN YEARS, 1866 TO 1902.

YEARS.		Principal Wheat-producing Districts.												Principal Grazing Districts.												CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY				
		0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.						MEANS FOR THE GRAZING DISTRICTS.		
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.					Days.	Inches.	
Means for 51 years, 1866-70		—	8.8	—	5.7	—	5.5	—	4.5	—	5.3	—	5.1	—	5.2	—	7.1	—	6.5	—	7.0	—	7.5	—	7.2	—	7.1	—	—	—	—	6.2
1871-75		—	8.5	—	6.5	—	5.5	—	5.5	—	6.4	—	6.4	—	6.1	—	7.3	—	7.4	—	7.9	—	7.5	—	6.2	—	7.3	—	—	—	—	6.7
1876-80		—	6.3	—	6.9	—	7.1	—	7.2	—	7.7	—	7.1	—	7.2	—	8.5	—	7.8	—	9.0	—	8.3	—	9.8	—	8.7	—	—	—	—	8.0
1881-85		51	6.7	44	5.2	43	5.8	39	5.9	41	6.5	38	5.6	47	5.8	47	8.1	42	7.0	44	7.2	52	7.2	46	7.7	46	7.4	45	5.6	44	6.6	
1886-90		54	7.0	43	5.7	40	4.8	41	5.1	41	6.4	40	5.7	47	5.5	45	8.8	41	6.5	42	6.5	46	7.1	46	7.5	44	7.3	46	5.9	43	6.4	
1891		45	6.3	36	4.4	35	4.3	41	5.5	43	6.7	38	4.8	39	5.1	36	5.0	39	5.9	42	7.2	46	6.1	45	8.4	42	6.5	41	6.2	41	5.8	
1892		59	9.1	51	6.4	51	7.3	42	6.1	38	5.5	31	3.7	43	5.8	49	10.0	50	8.3	37	4.6	56	9.6	46	8.0	47	8.1	37	4.8	45	7.0	
1893		41	5.2	36	5.1	28	3.2	22	2.3	23	3.1	20	1.7	26	3.1	30	5.4	27	4.2	21	3.0	33	4.9	30	4.8	28	4.5	17	2.1	27	3.8	
1894		47	6.1	40	6.6	54	7.2	48	7.1	45	5.9	44	5.8	48	6.5	53	8.3	55	7.0	51	7.5	56	8.0	53	9.7	54	8.1	53	6.7	51	7.3	
1895		49	8.0	38	4.9	32	4.1	27	2.9	28	4.1	26	2.9	30	3.8	40	4.7	30	4.4	26	4.3	42	4.3	33	4.6	34	4.5	31	3.6	32	4.2	
Means for 51 years, 1891-95		48	7.1	42	5.5	40	5.2	36	4.8	35	5.1	32	3.3	37	4.9	42	6.7	40	6.0	35	5.3	46	6.6	41	7.1	41	6.3	36	4.7	39	5.6	
1896		54	9.0	42	5.0	37	3.2	33	3.8	30	3.8	28	3.0	34	3.8	37	6.3	35	4.1	24	2.8	44	6.1	34	3.8	35	4.7	29	2.8	35	4.3	
1897		49	8.7	47	8.0	39	5.4	39	5.3	40	6.7	35	5.4	40	6.0	54	9.9	47	8.0	44	8.0	55	10.6	53	10.0	51	9.3	49	6.3	46	7.7	
1898		57	9.9	50	7.0	50	6.2	46	6.7	48	6.6	46	6.2	48	6.5	55	8.7	49	8.8	47	8.9	64	9.4	51	10.3	53	9.2	50	7.6	51	7.9	
1899		51	8.9	52	8.4	47	7.1	40	6.0	42	6.4	37	5.3	44	6.6	51	12.1	48	8.5	43	8.1	52	10.0	46	8.7	48	9.5	41	6.3	46	8.1	
1900		58	10.0	49	6.0	39	4.9	42	5.0	41	5.5	37	5.1	42	5.3	54	11.9	44	6.6	45	8.5	59	9.4	53	9.7	51	9.2	43	5.0	47	7.3	
Means for 51 years, 1896-00		54	9.3	48	6.9	42	5.4	40	5.4	40	5.8	37	5.0	47	5.7	50	9.8	45	7.3	41	7.3	55	9.1	47	8.5	48	8.4	42	5.6	45	7.1	
1901		50	8.3	45	6.4	34	4.1	36	4.2	35	4.3	31	4.1	36	4.6	45	10.3	40	5.1	35	7.1	49	8.3	41	7.8	42	7.7	38	6.8	39	6.2	
1902		59	8.2	54	6.9	47	6.3	49	7.0	48	6.5	50	6.7	50	6.7	55	9.1	52	6.7	49	7.3	63	8.1	55	7.4	55	7.7	49	7.3	53	7.2	
Means for 37 years, 1866-02		—	7.7	—	6.1	—	5.6	—	5.5	—	6.1	—	5.5	—	5.8	—	8.1	—	6.8	—	7.2	—	7.6	—	7.7	—	7.5	—	—	—	—	6.7
Means for 51 years, 1866-70		48.5	50.4	48.8	52.7	53.1	53.1	51.8	51.3	51.8	53.9	52.5	53.0	51.5	51.8	53.0	51.6	53.8	52.1	—	—	—	—	—	—	—	—	—	—	—	—	52.2
1871-75		48.2	49.8	49.6	51.0	52.0	52.1	50.9	51.1	51.3	53.0	51.6	53.3	51.1	51.3	53.0	51.6	53.8	52.1	—	—	—	—	—	—	—	—	—	—	—	—	51.5
1876-80		47.2	48.9	49.4	51.1	51.8	51.9	50.5	50.2	50.5	52.0	50.1	52.0	50.2	50.5	52.0	50.1	52.0	51.0	—	—	—	—	—	—	—	—	—	—	—	—	50.8
1881-85		46.8	49.5	50.0	51.8	51.8	52.9	51.2	50.0	50.8	51.6	50.6	51.6	50.0	50.8	51.6	50.6	51.6	50.9	—	—	—	—	—	—	—	—	—	—	—	—	51.1
1886-90		47.6	49.2	49.5	51.4	51.5	52.6	50.8	50.1	50.8	51.9	50.7	52.1	50.1	50.8	51.9	50.7	52.1	51.1	—	—	—	—	—	—	—	—	—	—	—	—	51.0
1891		47.5	48.2	48.8	50.7	50.8	52.3	50.2	49.6	50.8	51.5	50.5	52.5	50.7	50.7	50.1	49.6	50.8	51.8	50.6	52.2	51.0	50.9	51.7	50.9	51.0	50.9	53.0	53.6	50.9	50.6	
1892		46.8	48.2	49.6	51.6	51.6	52.5	50.7	46.8	50.8	51.8	50.6	52.2	49.6	50.8	51.8	50.6	52.2	51.0	—	—	—	—	—	—	—	—	—	—	—	—	50.9
1893		51.0	52.0	52.0	54.2	55.3	56.3	54.0	51.0	52.0	53.0	51.6	53.5	53.6	54.9	56.5	53.6	54.9	56.5	54.8	56.1	55.2	55.2	56.1	55.2	55.2	57.6	57.6	54.6	54.6	54.6	
1894		48.4	48.3	49.3	51.5	51.4	53.2	50.7	48.4	51.2	52.1	50.5	52.2	50.0	51.2	52.1	50.5	52.2	51.2	—	—	—	—	—	—	—	—	—	—	—	—	51.0
1895		49.2	50.3	50.8	52.3	53.0	53.5	52.0	49.2	50.3	53.2	52.0	53.5	51.6	52.2	53.2	52.0	53.1	52.4	—	—	—	—	—	—	—	—	—	—	—	—	52.2
Means for 51 years, 1891-95		48.6	49.4	50.1	52.1	52.4	53.6	51.5	48.6	49.4	50.1	52.1	51.5	51.0	51.9	53.0	51.7	53.1	52.1	—	—	—	—	—	—	—	—	—	—	—	—	51.8
1896		49.8	51.7	51.8	52.6	53.4	54.2	52.7	47.4	48.3	49.6	52.1	52.0	52.5	49.9	51.2	53.1	53.1	54.4	—	—	—	—	—	—	—	—	—	—	—	—	53.2
1897		47.4	48.3	49.6	52.1	52.0	53.7	51.1	48.4	49.2	49.9	51.4	51.3	50.7	51.3	52.2	51.0	52.4	51.5	—	—	—	—	—	—	—	—	—	—	—	—	51.2
1898		48.4	49.2	49.9	51.4	51.3	52.6	50.9	47.7	48.6	49.9	51.7	51.8	50.2	51.5	52.9	50.9	52.9	51.7	—	—	—	—	—	—	—	—	—	—	—	—	51.2
1899		47.7	48.6	49.9	51.4	51.3	53.3	51.1	48.6	49.2	50.4	51.9	51.7	51.0	51.3	51.9	51.4	52.7	51.7	—	—	—	—	—	—	—	—	—	—	—	—	51.4
1900		48.6	49.2	50.4	51.9	51.7	52.5	51.1	48.6	49.2	50.4	51.9	51.7	51.0	51.3	51.9	51.4	52.7	51.7	—	—	—	—	—	—	—	—	—	—	—	—	51.4
Means for 51 years, 1896-00		48.4	49.4	50.3	51.9	52.0	53.3	51.4	48.4	49.4	50.3	51.9	51.4	50.9	51.8	52.9	51.3	53.0	52.0	—	—	—	—	—	—	—	—	—	—	—	—	51.7
1901		48.9	49.4	50.7	51.8	52.1	52.8	51.4	48.1	48.6	49.1	50.4	48.9	50.6	51.8	52.9	50.3	50.5	52.1	—	—	—	—	—	—	—	—	—	—	—	—	51.5
1902		46.1	46.6	48.1	49.8	49.4	50.4	48.9	46.1	46.6	48.1	49.8	48.9	48.6	49.3	50.3	48.8	50.4	49.5	—	—	—	—	—	—	—	—	—	—	—	—	49.2
Means for 37 years, 1866-02		47.9	49.4	49.8	51.7	52.0	52.7	51.1	47.9	49.4	49.8	51.7	51.1	50.6	51.2	52.6	51.1	52.5	51.6	—	—	—	—	—	—	—	—	—	—	—	—	51.4

TABLE IA.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-SEVEN YEARS, 1866 TO 1902.

		Wheat Districts.		Grazing Districts.		Generally.	
		Ins.		Ins.		Ins.	
Rainfall	{ Driest	3.1	in 1870 and 1893	4.2	in 1887	3.8	in 1893
	{ Wettest	9.4	in 1879	{ 10.3 in 1872 and 1878 } { 10.2 in 1879 and 1882 }		9.8	in 1879
Temperature	{ Coldest	48.4	in 1879	49.1	in 1879 and 1885	48.8	in 1879
	{ Warmest	54.0	in 1868 and 1893	55.2	in 1893	54.6	in 1893

TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR PERIODS OF FOUR WEEKS OR FIVE WEEKS, AND THE PROGRESSIVE VALUES FROM DECEMBER 29TH, 1901, FOR THE SECOND QUARTER, 1902.

1902. — FOUR WEEKS OR FIVE WEEKS ENDING	Principal Wheat-producing Districts.														Principal Grazing Districts.										CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.				
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.				MEANS FOR THE GRAZING DISTRICTS.			
	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.	For the Period.	From Dec. 29, 1901.			For the Period.	From Dec. 29, 1901.		
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
April 26 -	17	85	14	64	12	53	11	53	13	51	12	47	12	53	16	76	13	66	12	59	18	81	16	65	15	70	14	65	14	63
May 24 -	21	106	21	85	18	71	21	74	17	68	18	65	19	72	18	94	19	85	16	75	21	102	17	82	18	88	15	80	19	82
June 28 -	21	127	19	104	17	88	17	91	18	86	20	85	18	90	21	115	20	105	21	96	24	126	22	104	22	110	20	100	20	102
RAINFALL.—AMOUNTS IN INCHES.																														
April 26 -	2.59	17.15	2.00	6.70	1.37	5.05	1.11	4.28	1.96	6.51	1.33	6.20	1.55	5.75	2.83	16.17	1.96	8.47	1.97	9.59	2.47	11.13	2.55	11.64	2.36	11.40	2.90	8.97	1.96	8.59
May 24 -	2.10	19.25	2.00	8.70	1.78	6.83	2.57	6.85	1.83	8.34	1.79	7.99	1.99	7.74	2.56	18.73	2.51	10.98	1.77	11.36	2.39	13.52	1.59	13.23	2.16	13.56	1.78	10.75	2.08	10.67
June 28 -	3.50	22.75	2.86	11.56	3.14	9.97	3.30	10.15	2.72	11.06	3.54	11.53	3.11	10.85	3.67	22.40	2.20	13.18	3.53	14.89	3.22	16.74	3.21	16.44	3.17	16.73	2.57	13.32	3.14	13.81
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
April 26 -	106	204	122	249	128	321	163	384	165	413	161	400	148	354	139	310	144	338	162	439	144	339	168	474	151	380	202	599	150	369
May 24 -	108	312	127	376	139	460	149	533	165	578	170	570	150	504	163	473	144	482	174	613	147	486	197	671	165	545	209	808	158	527
June 28 -	290	602	305	681	384	844	491	1024	453	1031	478	1048	422	926	402	875	445	927	460	1073	370	856	430	1101	421	966	490	1298	422	949
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
April 26 -	83	594	96	654	72	480	57	470	72	479	41	331	68	484	68	437	58	396	50	308	53	325	34	232	53	341	2	99	61	414
May 24 -	64	658	73	727	42	522	46	516	44	523	27	358	46	530	46	483	25	421	16	324	14	339	18	240	22	363	0	99	34	448
June 28 -	2	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
April 26 -	159	328	155	345	159	354	153	406	141	334	154	409	152	369	148	319	176	389	141	373	185	353	158	375	162	362	159	415	157	367
May 24 -	146	474	156	501	171	525	158	564	164	498	161	570	162	531	182	501	205	594	199	572	162	515	180	555	186	548	210	625	174	541
June 28 -	159	633	148	649	172	697	241	805	183	681	242	812	197	728	158	659	189	783	204	776	153	668	180	735	177	725	242	867	187	728
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
April 26 -	41	27	40	28	42	28	40	32	37	27	41	32	40	29	39	26	46	31	27	29	48	28	42	30	43	29	42	32	41	29
May 24 -	33	28	35	30	39	31	37	33	38	30	38	34	38	31	42	30	47	35	47	34	37	31	42	33	43	32	50	37	40	32
June 28 -	26	28	25	28	29	31	42	36	32	30	43	36	34	32	27	29	32	34	36	34	26	29	31	32	31	32	44	38	32	32

EXPLANATION OF TABLES.

TABLES I. and I.A. are in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-1901. The whole of the values for 1878-1902, however, have been corrected by information which may have been received since they were first published.

TABLE II. In this Table the values given do not apply to calendar months but to periods of four weeks or five weeks ending at the dates shown.

The figures given in the columns headed "From Dec. 29/1901" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the Grazing Districts" the values for the "Channel Islands" are not included.

The "Means for the British Islands generally" are those for the Wheat Districts and Grazing Districts combined.

VOL. XIX. APPENDIX I.]
New Series.

[Price 4d.]

YEARS.	O. SCOTLAND, N.		Principal Wheat-producing Districts.									Principal Grazing Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY							
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT- PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.					10. IRELAND, S.		MEANS FOR THE GRAZING DISTRICTS.			
			Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.					Inches.	Days.	Inches.	Days.	Inches.	Days.
Means for 5 years, 1866-70	—	10·6	—	8·8	—	6·3	—	6·1	—	7·4	—	7·3	—	7·2	—	10·9	—	9·9	—	10·1	—	9·8	—	8·6	—	9·8	—	—	—	—	8·6
1871-75	—	13·1	—	10·7	—	8·4	—	7·5	—	9·1	—	8·0	—	8·7	—	13·2	—	12·9	—	14·1	—	12·2	—	10·8	—	12·6	—	—	—	10·7	
1876-80	—	9·0	—	8·9	—	9·2	—	9·0	—	10·1	—	8·7	—	9·2	—	11·7	—	12·3	—	11·6	—	11·1	—	10·7	—	11·5	—	—	—	10·4	
1881-85	56	7·8	51	7·9	46	7·3	45	7·4	45	7·5	44	6·6	46	7·3	53	11·8	49	9·8	52	10·0	60	10·3	53	10·2	53	10·4	54	7·6	50	8·9	
1886-90	60	10·3	51	7·4	46	7·6	45	7·3	43	6·8	40	6·9	45	7·2	51	10·9	47	9·3	46	9·1	58	10·3	50	9·1	50	9·7	46	7·1	48	8·5	
1891	71	15·9	59	11·7	51	8·8	51	8·5	52	7·9	52	9·0	53	9·2	62	14·9	55	13·8	56	12·9	66	11·3	56	11·0	59	12·8	51	9·7	56	11·0	
1892	66	15·0	51	8·3	44	6·6	40	8·2	46	7·5	44	8·4	45	7·8	53	15·5	53	12·1	51	10·0	62	12·0	53	13·2	54	12·5	43	7·2	50	10·2	
1893	70	15·7	55	8·1	49	6·8	45	5·9	43	6·0	43	7·0	47	6·8	53	11·3	54	10·4	47	9·9	60	11·2	52	8·7	53	10·3	51	9·8	50	8·6	
1894	63	10·5	48	8·9	49	6·2	54	7·6	44	6·8	51	9·2	49	7·7	40	7·3	44	8·0	52	10·7	54	6·8	45	8·8	47	8·3	54	11·9	48	8·0	
1895	53	14·0	51	9·6	44	7·9	34	8·3	40	6·6	37	6·8	41	7·8	54	12·7	46	9·3	40	8·3	57	10·9	49	10·1	49	10·3	39	5·7	45	9·1	
Means for 5 years, 1891-95	65	14·2	53	9·3	47	7·3	45	7·7	45	7·0	45	8·1	47	7·9	52	12·3	50	10·7	49	10·4	60	10·4	51	10·4	52	10·8	48	8·9	50	9·4	
1896	59	13·5	59	9·3	52	6·9	49	8·2	51	8·3	46	9·1	51	8·4	60	13·9	55	11·3	49	10·0	64	13·5	56	12·7	57	12·3	50	9·6	54	10·4	
1897	58	12·2	53	7·7	42	7·4	41	6·9	42	7·4	41	6·6	44	7·2	55	11·9	47	10·0	53	11·7	59										

				Wheat Districts.	Grazing Districts.	Generally.
				Ins.	Ins.	Ins.
Rainfall	{ Driest	-	-	4.0 in 1898	8.4 in 1870	5.7 in 1870
	{ Wettest	-	-	10.6 in 1879	14.2 in 1872	12.4 in 1879
Temperature	{ Coldest	-	-	55.7 in 1888	55.5 in 1888	55.6 in 1888
	{ Warmest	-	-	80.9 in 1888	80.8 in 1888	80.9 in 1888

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1902.

VOL. XIX. APPENDIX I.]
New Series.

FOURTH QUARTER—OCTOBER TO DECEMBER.

[Price 4d.]

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FOURTH QUARTER OF THE THIRTY-SEVEN YEARS, 1866 TO 1902.

YEARS.		Principal Wheat-producing Districts.											Principal Grazing Districts.											CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.						
		0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.						10. IRELAND, S.		MEANS FOR THE GRAZING DISTRICTS.		
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.					Days.	Inches.	Days.	Inches.	Days.
Means for 5 years, 1866-70		—	18.4	—	8.8	—	7.7	—	7.4	—	7.6	—	8.3	—	8.0	—	12.9	—	14.7	—	14.6	—	12.6	—	10.5	—	13.1	—	—	—	—	10.6
1871-75		—	17.2	—	10.4	—	7.7	—	7.2	—	7.9	—	9.9	—	8.6	—	13.1	—	13.3	—	16.3	—	11.1	—	12.1	—	13.2	—	—	—	—	10.9
1876-80		—	13.8	—	9.1	—	8.1	—	7.2	—	8.1	—	9.5	—	8.4	—	12.8	—	12.0	—	14.1	—	11.0	—	11.3	—	12.2	—	—	—	—	10.3
1881-85		68	12.7	54	7.2	55	7.3	59	8.8	55	8.6	52	8.9	55	8.2	58	15.8	56	11.0	62	13.7	64	11.8	61	11.8	60	12.8	67	12.4	58	10.5	
1886-90		71	15.0	57	8.5	53	7.3	51	6.6	50	7.2	52	8.8	53	7.7	58	15.3	59	10.7	62	13.6	64	12.1	59	12.6	60	12.9	69	11.9	57	10.3	
1891		61	15.9	51	9.7	52	7.8	62	9.0	60	11.4	62	13.6	57	10.3	60	20.8	58	14.2	64	18.2	64	12.4	61	16.5	61	16.4	66	14.6	59	13.4	
1892		65	14.5	53	8.0	55	7.3	49	8.9	48	6.1	47	8.6	50	7.8	57	13.0	56	10.5	57	10.1	68	10.5	59	11.3	59	11.1	63	10.3	55	9.5	
1893		76	24.2	57	8.2	52	5.9	55	7.7	50	6.7	51	8.9	53	7.5	65	16.4	61	10.4	56	12.1	65	10.1	57	10.4	61	11.9	61	9.2	57	9.7	
1894		66	15.8	48	7.4	54	7.0	56	7.7	53	8.9	52	10.8	53	8.4	62	15.3	58	11.4	55	16.2	60	10.9	53	14.1	58	13.6	58	12.3	56	11.0	
1895		66	16.6	58	10.6	55	8.2	52	7.4	53	8.6	56	10.5	55	9.1	53	14.2	59	11.9	65	16.6	63	12.7	62	13.8	60	13.8	74	15.3	58	11.5	
Means for 5 years, 1891-95		67	17.4	53	8.8	54	7.2	55	8.1	53	8.3	54	10.5	54	8.6	59	15.9	58	11.7	59	14.6	64	11.3	58	13.2	60	13.3	64	12.3	57	11.0	
1896		71	15.9	62	10.4	68	11.1	61	8.0	58	8.2	57	9.3	61	9.4	58	13.1	57	11.2	63	14.0	62	10.4	58	11.5	60	12.0	76	12.9	61	10.7	
1897		59	14.7	47	7.7	43	5.2	37	3.9	42	6.0	37	5.5	41	5.7	55	14.4	44	11.2	44	11.0	54	10.4	49	15.0	49	12.4	46	8.9	45	9.1	
1898		71	24.4	59	11.4	52	8.5	48	7.2	50	8.3	48	9.2	51	8.9	62	16.1	63	10.5	64	15.3	62	11.7	64	13.5	64	13.4	68	12.7	58	11.2	
1899		67	18.5	48	8.6	40	6.3	38	6.6	35	6.9	34	8.4	39	7.4	59	16.6	41	9.3	45	11.4	58	11.2	50	13.2	51	12.3	46	9.9	45	9.9	
1900		76	22.3	71	12.8	60	9.2	60	5.9	61	8.3	59	8.8	72	23.6	64	23.6	64	13.4	69	15.9	71	15.2	67	18.8	69	17.4	71	12.2	66	13.2	
Means for 5 years, 1896-00		69	19.2	57	10.2	53	8.1	49	6.3	49	7.5	47	8.2	51	8.1	61	16.8	54	11.1	57	13.5	63	11.8	58	14.4	59	13.5	61	11.3	55	10.8	
1901		71	15.5	55	8.7	46	8.5	44	7.4	41	6.9	41	6.8	45	7.9	64	17.5	53	11.8	49	9.9	66	12.6	55	10.9	57	12.5	58	10.3	51	10.2	
1902		62	15.9	59	8.7	51	8.5	48	4.7	50	7.4	51	7.5	52	7.0	62	18.0	56	9.7	56	12.0	62	10.7	62	12.9	60	12.7	68	10.2	56	9.9	
Means for 37 years, 1866-02		—	16.2	—	9.0	—	7.7	—	7.3	—	7.9	—	9.0	—	8.2	—	14.8	—	12.0	—	14.2	—	11.7	—	12.3	—	13.0	—	—	—	10.6	—
Means for 5 years, 1866-70		42.1	42.1	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	
1871-75		42.4	41.8	42.7	42.7	42.9	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	
1876-80		41.7	41.6	42.3	42.3	42.9	42.4	42.4	42.4	42.4	42.4	42.4	42.7	42.9	43.7	47.1	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	
1881-85		42.6	42.0	43.4	43.4	43.4	43.0	43.0	43.0	43.0	43.0	43.0	43.4	43.5	44.1	46.5	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	
1886-90		42.1	41.8	42.6	42.6	42.3	42.1	42.1	42.1	42.1	42.1	42.1	42.6	43.6	43.6	45.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	
1891		42.0	40.8	42.3	42.3	43.6	42.5	42.5	42.5	42.5	42.5	42.5	43.0	43.4	43.7	45.9	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	
1892		40.2	39.1	40.9	40.9	41.5	40.5	40.5	40.5	40.5	40.5	40.5	41.1	41.5	42.1	44.5	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	
1893		41.9	42.0	44.0	44.0	43.9	43.4	43.4	43.4	43.4	43.4	43.4	43.7	44.1	45.3	46.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	
1894		44.0	42.7	44.7	44.7	45.5	45.2	45.2	45.2	45.2	45.2	45.2	45.1	45.6	46.7	48.0	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	
1895		41.2	40.5	43.0	43.0	43.8	42.9	42.9	42.9	42.9	42.9	42.9	43.2	43.0	44.2	46.6	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	
Means for 5 years, 1891-95		41.9	41.0	43.0	43.0	43.7	42.9	42.9	42.9	42.9	42.9	42.9	43.2	43.5	44.4	46.2	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	
1896		41.2	40.5	41.9	41.8	41.8	40.9	40.9	40.9	40.9	40.9	40.9	41.7	41.8	42.5	43.3	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	
1897		43.2	42.9	45.0	44.4	44.4	44.2	44.2	44.2	44.2	44.2	44.2	44.8	44.8	45.8	48.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	
1898		44.3	44.2	47.0	47.4	47.4	46.7	46.7	46.7	46.7	46.7	46.7	46.9	46.8	48.1	49.5	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	
1899		44.0	42.8	43.9	44.0	44.0	42.9	42.9	42.9	42.9	42.9	42.9	44.0	44.7	44.8	47.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	
1900		43.4	43.2	46.1	46.7	46.7	46.0	46.0	46.0	46.0	46.0	46.0	46.1	45.3	46.9	48.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	
Means for 5 years, 1896-00		43.2	42.7	44.8	44.9	44.9	44.1	44.1	44.1	44.1	44.1	44.1	44.7	44.9	45.8	47.2	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	
1901		41.8	41.1	43.0	43.5	43.5	42.3	42.3	42.3	42.3	42.3	42.3	43.0	43.2	44.1	45.2	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	
1902		43.9	42.9	44.9	44.7	44.7	44.1	44.1	44.1	44.1	44.1	44.1	44.5	43.2	45.2	45.3	46.6	45.9	45.9													

TABLE IA.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-SEVEN YEARS, 1866 TO 1902.

				Wheat Districts.	Grazing Districts.	Generally.
Rainfall	{	Driest	- - -	Ins. 3.4 in 1879	Ins. 5.0 in 1879	Ins. 4.2 in 1879
		Wettest	- - -	13.1 in 1872	18.6 in 1872	15.9 in 1872
Temperature	{	Coldest	- - -	40.3 in 1887	41.9 in 1887	41.1 in 1887
		Warmest	- - -	46.9 in 1898	48.1 in 1898	47.5 in 1898

SUMMARY OF THE WEEKLY WEATHER REPORT, 1902.

VOL. XIX. APPENDIX I.]
New Series.

VALUES FOR THE WHOLE YEAR.

[Price 4d.]

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE FOR THE WHOLE YEAR DURING THE THIRTY-SEVEN YEARS, 1866 TO 1902.

YEARS.	O. SCOTLAND, N.		Principal Wheat-producing Districts.										Principal Grazing Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.						
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT- PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.						10. IRELAND, S.		MEANS FOR THE GRAZ- ING DIS- TRICTS.		
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.			
Means for 5 } years, 1866-70 }	—	50.4	—	32.9	—	25.0	—	23.8	—	27.3	—	29.2	—	27.6	—	43.5	—	42.9	—	45.4	—	41.7	—	37.4	—	42.2	—	—	—	34.9	
1871-75 - - -	—	47.8	—	35.4	—	26.5	—	24.6	—	30.1	—	31.4	—	29.6	—	44.7	—	44.0	—	52.0	—	40.3	—	39.6	—	44.1	—	—	—	36.9	
1876-80 - - -	—	38.6	—	32.0	—	29.8	—	29.0	—	32.2	—	32.5	—	31.1	—	44.2	—	41.4	—	44.6	—	39.6	—	41.9	—	42.3	—	—	—	36.7	
1881-85 - - -	24.1	37.1	198	26.4	188	25.5	187	27.2	186	29.0	177	27.4	187	27.1	216	48.1	198	36.6	211	40.7	236	38.6	217	41.7	216	41.1	222	33.8	202	34.1	
1886-90 - - -	25.1	44.3	203	27.7	187	24.9	184	23.7	176	25.6	177	26.8	185	25.7	207	45.7	197	33.3	200	37.4	223	37.9	204	38.7	206	38.6	217	32.0	196	32.2	
1891 - - -	24.2	52.8	184	30.9	181	24.6	197	26.8	192	30.1	190	33.2	188	29.1	205	49.9	186	38.3	200	45.1	225	35.3	204	41.5	203	42.0	201	36.7	197	35.6	
1892 - - -	25.3	49.8	201	28.2	197	25.6	180	27.2	176	23.1	160	24.4	183	25.7	206	46.5	205	37.2	192	31.1	232	38.0	203	40.1	208	38.6	195	29.2	196	32.2	
1893 - - -	25.2	57.9	199	27.3	173	20.4	171	21.1	164	20.8	162	23.5	174	22.6	205	43.1	191	31.4	173	33.7	217	34.0	189	32.6	195	35.0	185	28.4	185	28.8	
1894 - - -	23.4	53.5	201	33.9	208	25.8	205	26.6	196	27.4	196	32.1	201	29.2	219	49.5	213	36.3	214	44.9	234	38.0	212	43.5	218	42.4	221	38.6	210	35.8	
1895 - - -	23.7	49.3	195	31.5	189	27.7	165	24.2	163	24.7	160	24.9	174	26.6	196	38.3	183	32.3	177	37.3	218	35.6	192	38.0	193	36.3	199	31.9	184	31.5	
Means for 5 } years, 1891-95 }	24.4	52.7	196	30.4	190	24.8	184	25.2	178	25.2	174	27.6	184	26.6	206	45.5	196	35.1	191	38.4	225	36.2	200	39.1	204	38.9	200	33.0	194	32.8	
1896 - - -	25.2	56.2	213	29.5	196	25.3	190	24.9	184	24.6	173	25.8	191	26.0	216	45.4	200	35.2	186	33.7	226	39.2	199	36.8	205	38.1	208	30.2	198	32.1	
1897 - - -	23.1	48.6	204	30.3	183	24.4	174	23.0	178	28.0	168	26.7	180	26.5	222	47.5	199	37.1	206	43.7	234	41.1	219	47.8	215	43.4	218	35.9	201	35.0	
1898 - - -	26.2	66.1	204	29.7	176	21.9	156	20.3	162	22.0	150	21.7	170	23.1	228	46.4	202	33.8	188	35.6	245	37.8	202	39.4	213	38.6	208	28.4	192	30.9	
1899 - - -	23.3	53.3	200	33.0	173	24.3	158	22.4	154	25.2	137	25.0	164	26.0	221	51.9	187	35.6	175	38.7	228	38.4	191	42.7	200	41.5	169	29.1	182	33.3	
1900 - - -	26.0	56.9	224	37.2	188	29.2	189	23.9	183	28.5	175	27.3	192	29.2	237	62.4	202	38.7	213	44.5	242	41.6	217	48.1	222	47.1	219	33.9	207	38.2	
Means for 5 } years, 1896-00 }	24.8	55.8	209	31.9	183	25.0	173	22.9	172	25.7	161	25.3	180	26.2	225	50.7	198	36.1	194	39.2	235	39.6	206	43.0	212	41.7	204	31.5	196	34.0	
1901 - - -	23.7	44.3	198	28.5	168	24.6	158	20.9	155	25.4	146	24.2	165	24.7	210	49.6	185	30.0	171	34.9	230	38.4	191	36.9	197	38.0	197	31.7	181	31.4	
1902 - - -	25.4	48.8	216	27.2	185	21.9	179	21.7	181	24.9	179	25.9	188	24.3	229	53.0	213	29.3	198	34.3	250	37.1	212	37.2	220	38.2	215	29.2	204	31.2	
Means for 37 } years, 1866-02 }	—	46.7	—	30.8	—	25.8	—	25.0	—	27.7	—	28.4	—	27.5	—	46.3	—	38.0	—	42.1	—	39.1	—	40.0	—	41.1	—	—	—	—	34.3
Means for 5 } years, 1866-70 }	45.9	47.2	47.1	49.0	49.1	49.5	48.4	48.1	48.8	51.3	48.9	50.0	48.4	48.9	48.1	48.8	50.9	48.4	50.3	49.3	48.1	48.8	50.3	49.3	48.1	48.8	50.3	49.3	48.1	48.8	
1871-75 - - -	46.3	47.1	47.4	48.4	48.8	49.3	48.2	47.8	48.1	48.1	48.6	50.9	48.4	50.3	47.6	48.1	50.6	47.9	50.1	48.9	48.5	51.6	48.3	47.8	48.1	48.8	50.3	49.3	48.1	48.8	
1876-80 - - -	45.4	46.3	47.1	48.3	48.2	49.3	47.8	47.6	48.1	48.1	48.1	50.6	47.9	50.1	47.4	48.2	49.7	48.0	49.4	48.5	51.6	48.3	47.8	48.1	48.8	50.3	49.3	48.1	48.8		
1881-85 - - -	45.3	46.6	47.5	48.5	48.2	49.8	48.1	47.1	47.6	48.9	47.9	48.0	48.1	47.3	47.1	47.6	48.9	47.9	49.3	48.2	47.8	48.9	48.2	47.8	48.1	48.8	50.3	49.3	48.1	48.8	
1886-90 - - -	45.2	46.1	46.8	47.4	47.3	48.8	47.3	47.3	47.6	48.8	47.8	49.0	48.1	47.5	47.4	47.8	48.8	47.8	49.0	48.1	47.7	48.9	48.2	47.8	48.1	48.8	50.3	49.3	48.1	48.8	
1891 - - -	45.5	45.7	46.5	47.5	47.2	48.9	47.2	47.3	47.8	48.8	47.8	49.0	48.1	47.5	47.3	47.3	47.7	48.8	47.8	49.0	48.1	47.7	48.9	48.2	47.8	48.1	48.8	50.3	49.3	48.1	48.8
1892 - - -	43.9	44.2	45.7	46.8	46.3	48.4	46.3	46.3	46.8	48.4	47.0	48.5	47.0	48.5	45.9	46.8	48.4	47.0	48.5	47.3	46.8	48.9	48.2	47.8	48.1	48.8	50.3	49.3	48.1	48.8	
1893 - - -	46.7	47.3	48.7	49.6	49.8	51.2	49.3	48.9	50.3	51.4	49.8	51.2	49.3	48.3	48.9	50.3	51.4	49.8	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	50.0	
1894 - - -	46.5	46.2	47.6	48.8	48.6	50.4	48.3	48.0	49.3	50.1	48.5	50.0	48.3	47.8	46.7	47.7	49.0	47.3	48.8	47.3	48.8	47.9	48.2	47.9	48.1	48.8	50.3	51.4	50.4	50.9	
1895 - - -	45.0	45.1	47.0	47.8	47.4	49.1	47.3	46.7	47.7	49.0	47.7	49.0	47.3	47.8	46.7	47.7	49.0	47.3	48.8	47.3	48.8	47.9	48.2	47.9	48.1	48.8	50.3	51.4	50.4	50.9	
Means for 5 } years, 1891-95 }	45.5	45.7	47.1	48.1	47.9	49.6	47.7	47.4	47.8	49.5	48.1	49.5	48.6	47.4	47.4	47.8	48.8	47.8	49.0	48.1	47.7	48.9	48.2	47.8	48.1	48.8	50.3	49.3	48.1	48.8	
1896 - - -	46.4	46.9	48.1	48.7	48.5	50.3	48.5	48.0	48.9	50.3	48.7	50.9	48.5	48.5	48.3	48.3	48.9	50.3	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	50.0	
1897 - - -	45.8	46.1	47.9	48.9	48.7	50.9	48.5	48.0	48.9	50.7	48.4	50.5	48.5	48.5	48.3	48.3	48.9	50.3	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	50.0	
1898 - - -	46.9	47.7	49.2	50.0	49.7	51.6	49.6	49.2	49.7	51.4	49.3	51.2	49.0	48.7	48.3	48.3	48.9	50.3	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	50.0	
1899 - - -	46.5	46.6	48.3	49.6	49.2	51.4	49.0	48.8	49.2	51.4	49.3	51.2	49.0	48.7	48.3	48.3	48.9	50.3	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	50.0	
1900 - - -	45.9	46.1	48.2	49.5	48.9	50.6	48.7	47.8	48.9	50.2	48.4	50.6	48.7	48.7	47.8	47.8	48.9	50.3	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	50.0	
Means for 5 } years, 1896-00 }	46.3	46.7	48.3	49.3	49.0	51.0	48.9	48.3	48.9	50.8	48.9	50.6	48.9	48.9	48.3	48.3	48.9	50.3	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	50.0	
1901 - - -	46.4	46.4	47.9	48.5	48.1	49.6	48.1	47.8	48.6	49.7	48.1	49.5	48.1	47.5	47.8	47.8	48.9	50.3	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	50.0	
1902 - - -	45.1	45.2	47.2	48.2	47.7	49.3	47.5	46.3	47.9	49.4	48.0	49.8	47.5	47.5	47.1	47.1	47.9	49.4	50.3	51.4	49.8	51.2	49.8	49.2	50.0	49.2	50.3	51.4	50.4	50.9	
Means for 37 } years, 1866-02 }	45.7	46.5	47.4	48.4	48.3	49.6	48.0	47.3	47.8	49.5	48.3	49.9	48.0	47.7	47.7	47.8	48.8	47.8	49.0	48.1	47.7	48.9	48.2	47.8	48.1	48.8	50.3	49.3	48.1	48.8	

TABLE 1A.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST YEARS FOR THE THIRTY-SEVEN YEARS, 1866 TO 1902.

		Wheat Districts.		Grazing Districts.		Generally.	
Rainfall	{ Driest	—	—	Ins. 21.0 in 1887	Ins. 30.5 in 1887	Ins. 25.8 in 1887	—
	{ Wettest	—	—	40.2 in 1872	58.0 in 1872	49.1 in 1872	—
Temperature	{ Coldest	—	—	45.5 in 1879	46.9 in 1879	46.2 in 1879	—
	{ Warmest	—	—	50.1 in 1868	50.7 in 1868	50.4 in 1868	—

NOTES.

1.—Rainfall.

The values for the Rainfall in the Districts given in Table I. in the various Quarterly and Annual Summaries have been obtained from the observations published in the Weekly Weather Report for the years 1878 to 1902, supplemented by observations taken at the following stations for the years 1866–1877.

Districts.	Stations.	Districts.	Stations.
0. SCOTLAND, N.	{ Loch Broom. Helmsdale. Sandwick Manse.	5. ENGLAND, S.	{ Bridport. Selborne. Maidstone. London (Camden Town).
1. SCOTLAND, E.	{ Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.	6. SCOTLAND, W.	{ Dumfries. Ayr. Castle Toward.
2. ENGLAND, N.E.	{ N. Shields. York. Grimsby. Boston.	7. ENGLAND, N.W., and N. WALES	{ Llandudno. Manchester. Skipton.
3. ENGLAND, E.	{ 1866 to 1875. { Fakenham. Beccles. Witham. Bury St. Edmunds. 1876 & 1877. { Yarmouth. Cambridge. Bury St. Edmunds.	8. ENGLAND, S.W., and S. WALES	{ Barnstaple. Bodmin. Haverfordwest. Rhayader.
4. MIDLAND COUNTIES	{ Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.	9. IRELAND, N.	{ Galway. Bunninadden, Co. Sligo. (Doo Castle.) Waringstown. Strabane.
		10. IRELAND, S.	{ Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

The values for these stations were extracted chiefly from Symons' Monthly Meteorological Magazine, or from the Reports of the Rainfall Committee of the British Association, 1868–1876.

2.—Temperature.

The values for Temperature in the several Districts given in Table I. of the various Quarterly and Annual Summaries have been obtained from the observations published in the Weekly Weather Report for the years 1878–1902, supplemented by observations taken at the following stations for the years 1866–1877.

Districts.	Stations.	Districts.	Stations.
0. SCOTLAND, N.	{ Sandwick Manse. Stornoway. Dunrobin.	7. ENGLAND, N.W., and N. WALES	{ Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
1. SCOTLAND, E.	{ Culloden. Aberdeen. Perth. Leith.	8. ENGLAND, S.W., and S. WALES	{ Gloucester. Taunton. Barnstaple. Truro. Helston.
2. ENGLAND, N.E.	{ Bywell. N. Shields. Hull.	9. IRELAND, N.	{ 1866 to 1873. { Belfast. Milltown (Banbridge). Armagh.† Athlone.* Moville. 1874 to 1877. { Milltown. Armagh. Donaghadee.
3. ENGLAND, E.	{ Royston. Holkham. Norwich. Wisbeach. Somerleyton.	10. IRELAND, S.	{ 1866 to 1873. { Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.† 1874 to 1877. { Kingstown. Parsonstown. Cork. Roche's Point. Valencia.
4. MIDLAND COUNTIES	{ Derby. Nottingham. Cardington. Oxford.		
5. ENGLAND, S.	{ Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.		
6. SCOTLAND, W.	{ Greenock. Cockermouth. Silloth. Carlisle.		

The values for these Stations were obtained mainly from the returns of the Registrar General, the Journals of the Scottish Meteorological Society, the reports of the Army Medical Department, and the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

W. N. SHAW Secretary.

WEEKLY WEATHER REPORT, 1902.

VOL. XIX. APPENDIX II.]

Fourth Series.

[Price 1s.]

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAINY DAYS IN EACH DISTRICT DURING THE YEAR 1902.

1902. LIMITS OF WEEKS.	Principal Wheat-producing Districts.											Principal Grazing Districts.											CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.						
	0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEANS FOR WHEAT PRODUCING DIS- TRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEANS FOR GRAZ- ING DISTRICTS.																	
	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.																	
NUMBERS OF DAYS WITH RAIN.																														
1902. Dec.29/01-Jan.4/1902	7	7	6	6	5	5	5	6	6	6	6	6	6	7	7	6	6	7	7	7	7	6	6	7	7	7	7	6	6	
Jan. 5-11 - -	7	14	3	9	2	7	2	7	3	9	2	8	2	8	5	12	5	11	3	10	5	12	4	10	5	12	2	9	4	10
12-18 - -	5	19	2	11	1	8	1	8	0	9	0	8	1	9	2	14	1	12	0	10	2	14	1	11	1	13	1	10	1	11
19-25 - -	7	26	5	16	3	11	3	11	2	11	2	10	3	12	7	21	5	17	5	15	6	20	4	15	5	18	4	14	4	15
Jan. 26-Feb. 1 -	3	29	3	19	3	14	4	15	3	14	3	13	3	15	3	24	4	21	4	19	4	24	3	18	4	22	5	19	3	18
Feb. 2-8 - -	4	33	3	22	3	17	3	18	3	17	4	17	3	18	3	27	2	23	3	22	2	26	2	20	2	24	4	23	3	21
9-15 - -	5	38	2	24	2	19	3	21	1	18	1	18	2	20	3	30	3	26	1	23	4	30	1	21	3	27	5	28	3	24
16-22 - -	3	41	3	27	4	23	2	23	3	21	2	20	3	23	3	33	2	28	2	25	4	34	5	26	3	30	3	31	3	27
Feb. 23-Mar. 1 -	3	44	5	32	5	28	4	27	6	27	6	26	5	28	6	39	6	34	6	31	6	40	6	32	6	36	5	36	6	33
Mar. 2-8 - -	7	51	4	36	2	30	5	32	1	28	1	27	3	31	5	44	3	37	1	32	5	45	1	33	3	39	0	36	3	36
9-15 - -	5	56	4	40	3	33	3	35	3	31	2	29	3	34	5	49	5	42	5	37	6	51	5	38	5	44	4	40	4	40
16-22 - -	7	63	5	45	3	36	3	38	3	34	3	32	3	37	6	55	5	47	5	42	6	57	5	43	5	49	5	45	4	44
23-29 - -	5	68	5	50	5	41	4	42	4	38	3	35	4	41	5	60	6	53	5	47	6	63	6	49	6	55	6	51	5	49
Mar. 30-April 5 -	6	74	5	55	4	45	4	46	5	43	4	39	4	45	6	66	5	58	5	52	6	69	5	54	5	60	3	54	5	54
April 6-12 - -	4	78	2	57	2	47	2	48	2	45	1	40	2	47	2	68	1	59	0	52	2	71	3	57	2	62	2	56	2	56
13-19 - -	3	81	3	60	2	49	3	51	3	48	3	43	3	50	3	71	3	62	3	55	5	76	4	61	4	66	3	59	3	59
20-26 - -	4	85	4	64	4	53	2	53	3	51	4	47	3	53	5	76	4	66	4	59	5	81	4	65	4	70	6	65	4	63
April 27-May 3 -	5	90	4	68	4	57	4	57	4	55	3	50	4	57	4	80	5	71	4	63	5	86	4	69	4	74	4	69	4	67
May 4-10 - -	5	95	6	74	5	62	6	63	4	59	5	55	5	62	4	84	5	76	3	66	5	91	4	73	4	78	2	71	5	72
11-17 - -	5	100	6	88	5	67	6	69	6	65	7	62	6	68	5	89	5	81	6	72	6	97	6	79	6	84	6	77	6	78
18-24 - -	6	106	5	85	4	71	5	74	3	68	3	65	4	72	5	94	4	85	3	75	5	102	3	82	4	88	3	80	4	82
May 25-31 - -	6	112	4	89	3	74	3	77	3	71	4	69	3	75	6	100	6	91	4	79	7	109	5	87	6	94	3	83	5	87
June 1-7 - -	5	117	6	95	6	80	5	82	5	76	5	74	6	81	5	105	4	95	5	84	5	114	6	93	5	99	4	87	5	92
8-14 - -	6	123	5	100	5	85	5	87	5	81	5	79	5	86	4	109	5	100	5	89	5	119	4	97	5	104	6	93	5	97
15-21 - -	2	125	2	102	2	87	3	90	4	85	5	84	3	89	4	113	4	104	5	94	5	124	5	102	4	108	5	98	4	101
22-28 - -	2	127	2	104	1	88	1	91	1	86	1	85	1	90	2	115	1	105	2	96	2	126	2	104	2	110	2	100	1	102
June 29-July 5 -	3	130	3	107	3	91	2	93	3	89	3	88	3	93	3	118	4	109	3	99	3	129	2	106	3	113	3	103	3	105
July 6-12 - -	6	136	4	111	4	95	2	95	2	91	2	90	3	96	6	124	4	113	2	101	6	135	3	109	4	117	2	105	4	109
13-19 - -	5	141	3	114	3	98	2	97	2	93	1	91	2	98	4	128	2	115	1	102	5	140	2	111	3	120	3	108	3	112
20-26 - -	5	146	6	120	6	104	5	102	5	98	5	96	5	103	4	132	6	121	4	106	4	144	4	115	4	124	4	112	4	116
July 27-Aug. 2 -	6	152	5	125	4	108	2	104	3	101	3	99	3	106	4	136	4	125	3	109	6	150	4	119	4	128	2	114	4	120
Aug. 3-9 - -	4	156	4	129	5	113	6	110	5	106	5	104	5	111	4	140	5	130	5	114	4	154	4	123	4	132	5	119	5	125
10-16 - -	4	160	3	132	3	116	2	112	3	109	5	109	3	114	2	142	4	134	4	118	5	159	4	127	4	136	2	121	3	128
17-23 - -	6	166	6	138	6	122	6	118	5	114	5	114	6	120	6	148	6	140	6	124	6	165	5	132	6	142	5	126	6	134
Aug. 24-30 - -	4	170	3	141	1	123	3	121	3	117	3	117	3	123	2	150	2	142	3	127	4	169	3	135	3	145	4	130	3	137
31-Sept. 6 - -	6	176	5	146	3	126	3	124	3	120	4	121	3	126	6	156	4	146	5	132	5	174	5	140	5	150	5	135	4	141
Sept. 7-13 - -	4	180	3	149	2	128	4	128	5	125	3	124	3	129	2	158	4	150	4	136	3	177	2	142	3	153	4	139	3	144
14-20 - -	6	186	4	153	3	131	2	130	3	128	2	126	3	132	5	163	4	154	3	139	6	183	4	146	4	157	4	143	4	148
21-27 - -	6	192	4	157	3	134	1	131	3	131	2	128	3	135	4	167	3	157	3	142	5	188	4	150	4	161	4	147	3	151
Sept. 28-Oct. 4 -	2	194	4	161	5	139	2	133	3	134	3	131	4	139	2	169	1	158	1	143	1	189	2	152	2	163	4	151	3	154
Oct. 5-11 - -	2	196	4	165	6	145	5	138	4	138	4	135	5	144	2	171	3	161	3	146	1	190	3	155	2	165	5	156	4	158
12-18 - -	6	202	6	171	5	150	5	143	6	144	5	140	5	149	6	177	6	167	6	152	6	196	6	161	6	171	6	162	5	163
19-25 - -	7	209	5	176	4	154	4	147	4	148	4	144	4	153	6	183	5	172	4	156	6	202	5	166	5	176	4	166	5	168
Oct. 26-Nov. 1 -	6	215	4	180	3	157	3	150	3	151	3	147	3	156	6	189	5	177	4	160	6	208	4	170	5	181	5	171	4	172
Nov. 2-8 - -	5	220	5	185	3	160	4</																							

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF RAINFALL IN EACH DISTRICT DURING THE YEAR 1902.

1902. LIMITS OF WEEKS.	Principal Wheat-producing Districts.													Principal Grazing Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DIS- TRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.					MEANS FOR GRAZ- ING DISTRICTS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.	Weekly. From Dec. 20, 1901.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1902.

1902. LIMITS OF WEEKS.	Principal Wheat-producing Districts.										Principal Grazing Districts.										CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.				
	0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEANS FOR WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEANS FOR GRAZING DISTRICTS.													
	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.												
DAY-DEGREES ABOVE 42° FAHRENHEIT.																										
1902.																										
Dec.29/01-Jan.4/1902	9	9	9	9	28	28	36	36	33	33	40	40	29	29	23	23	27	27	45	45	26	26	34	34	31	31
Jan. 5-11	10	19	18	27	23	51	25	61	25	58	24	64	23	52	20	43	20	47	32	77	18	44	32	66	24	55
12-18	2	21	1	28	2	53	2	63	1	59	2	66	2	54	2	45	2	49	4	81	4	48	10	76	5	60
19-25	10	31	11	39	24	77	22	85	24	83	20	86	20	74	21	66	19	68	22	103	19	67	25	101	21	81
Jan. 26-Feb. 1	0	31	0	39	0	77	0	85	0	83	0	86	0	74	0	66	0	68	3	106	0	67	6	107	2	83
Feb. 2-8	0	31	0	39	0	77	0	85	0	83	0	86	0	74	0	66	0	68	0	106	0	67	0	107	0	83
9-15	0	31	0	39	0	77	0	85	0	83	0	86	0	74	0	66	0	68	0	106	0	67	0	107	0	83
16-22	3	34	0	39	0	77	0	85	0	83	0	86	0	74	0	66	0	68	0	106	5	72	20	127	5	88
Feb. 23-Mar. 1	11	45	4	43	10	87	14	99	26	109	23	109	16	90	16	82	25	93	33	139	27	99	41	168	29	117
Mar. 2-8	22	67	28	71	30	117	20	119	36	145	31	140	29	119	25	107	27	120	37	176	28	127	34	202	30	147
9-15	15	82	19	90	26	143	31	150	33	178	33	173	28	147	25	132	25	145	36	212	27	154	38	240	30	177
16-22	12	94	29	119	34	177	37	187	37	215	32	205	26	158	26	171	31	243	26	180	32	272	28	205	46	165
23-29	4	98	8	127	16	193	34	221	33	248	34	239	25	206	13	171	23	194	34	277	15	195	34	306	24	229
Mar. 30-April 5	11	109	16	143	21	214	39	260	34	282	34	273	29	235	19	190	24	218	32	309	25	220	33	339	27	256
April 6-12	13	122	15	158	11	225	30	273	15	297	17	290	14	249	22	212	15	233	21	330	21	241	31	370	22	278
13-19	36	158	43	201	43	268	53	326	56	353	50	340	49	298	41	253	44	277	47	377	41	282	44	414	43	321
20-26	46	204	48	249	53	321	58	384	60	413	60	400	56	354	57	310	61	338	62	439	57	339	60	474	59	380
April 27-May 3	34	238	37	286	39	360	39	423	43	456	43	443	40	394	42	352	38	376	44	483	37	376	47	521	42	422
May 4-10	19	257	21	307	25	385	30	453	31	487	35	478	29	423	39	391	27	403	36	519	33	409	41	562	35	457
11-17	19	276	19	326	29	414	35	488	40	527	37	515	32	455	37	428	32	435	40	559	32	441	52	614	39	496
18-24	36	312	50	376	46	460	45	533	51	578	55	570	49	504	45	473	47	482	54	613	45	486	57	671	49	545
May 25-31	34	346	46	422	74	534	97	630	82	660	89	659	78	582	51	524	60	551	76	689	48	534	66	737	62	607
June 1-7	52	398	57	479	76	610	110	740	95	755	99	758	87	669	80	604	92	643	94	783	74	608	85	822	85	692
8-14	37	435	41	520	46	656	56	796	50	805	64	822	51	720	50	663	55	698	61	844	40	648	51	873	53	745
15-21	52	487	48	568	69	725	90	886	82	887	85	907	75	795	78	741	83	781	83	927	77	725	87	960	82	827
22-28	115	602	113	681	119	844	138	1024	144	1031	141	1048	131	926	134	875	146	927	146	1073	131	856	141	1101	139	966
June 29-July 5	88	690	97	778	111	955	132	1156	130	1161	130	1178	120	1046	113	988	118	1045	131	1204	116	972	137	1238	123	1089
July 6-12	69	759	88	866	111	1066	127	1283	121	1282	137	1315	117	1163	92	1080	107	1152	122	1326	102	1074	120	1358	109	1198
13-19	83	842	102	968	122	1188	133	1416	122	1404	143	1458	124	1179	99	1179	109	1261	129	1446	104	1178	121	1479	110	1308
20-26	53	895	55	1023	83	1271	102	1518	90	1494	106	1564	87	1374	72	1251	86	1347	98	1544	78	1256	101	1580	87	1395
July 29-Aug. 2	64	959	76	1099	90	1361	104	1622	95	1589	109	1673	95	1469	77	1328	82	1439	105	1649	81	1337	99	1679	91	1486
Aug. 3-9	69	1028	71	1170	83	1444	107	1729	99	1688	121	1797	97	1565	82	1410	88	1527	118	1767	85	1422	107	1786	96	1582
10-16	64	1092	78	1248	85	1529	104	1833	102	1790	113	1910	96	1662	92	1502	99	1626	117	1884	102	1524	119	1905	106	1688
17-23	67	1159	81	1329	99	1628	118	1951	111	1901	128	2038	107	1769	90	1592	111	1737	128	2012	102	1626	126	2031	111	1799
Aug. 24-30	87	1246	88	1417	108	1736	123	2074	109	2010	137	2175	113	1882	89	1681	111	1848	118	2130	96	1722	104	2135	104	1903
31-Sept. 6	91	1337	93	1510	108	1844	130	2204	120	2130	134	2309	117	1999	99	1780	116	1964	122	2252	104	1826	118	2253	112	2015
Sept. 7-13	58	1395	62	1572	80	1924	98	2302	83	2213	107	2416	86	2085	76	1856	88	2052	105	2357	85	1911	98	2351	90	2105
14-20	46	1441	53	1625	68	1992	75	2377	70	2283	85	2501	70	2155	71	1927	78	2130	84	2441	73	1984	85	2436	78	2183
21-27	91	1532	86	1711	92	2084	98	2475	90	2373	111	2612	96	2251	92	2019	94	2224	102	2543	102	2086	103	2539	99	2282
Sept. 28-Oct. 4	56	1588	51	1762	59	2143	56	2531	48	2419	55	2667	53	2304	62	2081	53	2277	56	2599	69	2155	68	2607	62	2344
Oct. 5-11	40	1628	36	1798	43	2186	64	2595	45	2464	67	2734	51	2355	42	2123	43	2320	61	2660	43	2198	53	2660	48	2392
12-18	39	1667	41	1839	51	2237	60	2655	50																	

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1902.

1902. LIMITS OF WEEKS.	Principal Wheat-producing Districts.										Principal Grazing Districts.										CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.								
	0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEANS FOR WHEAT PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEANS FOR GRAZING DISTRICTS.																	
														Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.			Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.	Weekly. From Dec. 29, 1901.		
DAY-DEGREES BELOW 42° FAHRENHEIT.																														
1902.																														
Dec.29/01-Jan.4/1902	23	23	30	30	10	10	4	4	4	4	0	0	10	10	4	4	1	1	0	0	4	4	0	0	2	2	0	0	6	6
Jan. 5-11 - -	19	42	11	41	8	18	9	13	6	10	2	2	7	17	1	5	1	2	0	0	3	7	0	0	1	3	6	0	4	10
12-18 - -	37	79	41	82	38	56	38	51	43	53	29	31	38	55	35	40	37	39	31	31	31	38	25	25	32	35	3	3	35	45
19-25 - -	24	103	29	111	7	63	14	65	15	68	11	42	15	70	6	46	4	43	6	37	4	42	0	25	4	39	0	3	10	55
Jan. 26-Feb. 1 -	116	219	112	223	57	120	51	116	55	123	37	79	63	133	79	125	52	95	32	69	47	89	37	62	49	88	11	14	56	111
Feb. 2-8 - -	68	287	69	292	47	167	60	176	65	188	54	133	59	192	54	179	50	145	53	122	39	128	32	94	46	134	25	39	52	163
9-15 - -	95	382	90	382	95	262	85	261	90	278	71	204	88	278	99	278	94	239	89	191	86	214	72	166	84	218	34	73	85	248
16-22 - -	24	406	53	435	60	322	56	317	65	343	51	255	57	335	33	311	56	295	39	230	22	236	9	175	32	250	21	94	45	293
Feb. 23-Mar. 1 -	18	424	26	461	21	343	22	339	10	353	3	258	17	352	8	319	7	302	0	230	2	238	0	175	3	253	0	94	10	303
Mar. 2-8 - -	7	431	10	471	14	357	32	371	22	375	14	272	18	370	0	319	11	313	13	243	0	238	8	183	7	260	3	97	12	315
9-15 - -	14	445	26	497	9	366	9	380	3	378	4	276	10	380	8	327	4	317	0	243	2	240	0	183	3	263	0	97	7	322
16-22 - -	21	466	17	514	12	378	13	393	9	387	2	278	11	391	11	338	6	323	2	245	9	249	6	189	7	270	0	97	9	331
23-29 - -	45	511	44	558	30	408	20	413	20	407	12	290	25	416	31	369	15	338	13	258	23	272	9	198	18	288	0	97	22	353
Mar. 30-April 5 -	30	541	35	593	28	436	18	431	17	424	9	299	21	437	17	386	14	352	8	266	12	284	5	203	11	299	0	97	16	369
April 6-12 - -	38	579	40	633	31	467	28	459	36	460	24	323	32	469	38	424	33	385	28	294	28	312	19	222	29	328	2	99	31	400
13-19 - -	15	594	18	651	13	480	11	470	19	479	8	331	14	483	13	437	11	396	14	308	13	325	10	232	13	341	0	99	14	414
20-26 - -	0	594	3	654	0	480	0	470	0	479	0	331	1	484	0	437	0	396	0	308	0	325	0	232	0	341	0	99	0	414
April 27-May 3 -	13	607	17	671	11	491	12	482	11	490	3	334	11	495	11	448	6	402	1	309	3	328	0	232	4	345	0	99	8	422
May 4-10 - -	28	635	29	700	16	507	20	502	19	509	17	351	20	515	19	467	13	415	11	320	9	337	8	240	13	357	0	99	16	438
11-17 - -	17	652	24	724	15	522	14	516	13	522	7	358	14	529	13	480	6	421	4	324	2	339	0	240	5	362	0	99	9	447
18-24 - -	6	658	3	727	0	522	0	516	1	523	0	358	1	530	3	483	0	421	0	324	0	339	0	240	1	363	0	99	1	448
May 25-31 - -	0	658	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
June 1-7 - -	0	658	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
8-14 - -	2	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
15-21 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
22-28 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
June 29-July 5 -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
July 6-12 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
13-19 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
20-26 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
July 27-Aug. 2 -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
Aug. 3-9 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
10-16 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
17-23 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
Aug. 24-30 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
31-Sept. 6 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
Sept. 7-13 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
14-20 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0	240	0	363	0	99	0	448
21-27 - -	0	660	0	727	0	522	0	516	0	523	0	358	0	530	0	483	0	421	0	324	0	339	0							

**TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE
IN EACH DISTRICT REGISTERED DURING THE YEAR 1902.**

1902. LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing Districts.										CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DIS- TRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.				MEANS FOR GRAZ- ING DISTRICTS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF BRIGHT SUNSHINE IN EACH DISTRICT EXPRESSED AS PERCENTAGES OF THE POSSIBLE DURATION FOR THE YEAR 1902.

1902. LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing Districts.										Channel Islands.		Means for the British Islands generally.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.						MEANS FOR GRAZING DISTRICTS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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